# EXHIBIT 51 [FILED UNDER SEAL]

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	FOR THE EASTERN DISTRICT OF	F TEXAS
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4	THE STATE OF TEXAS, et   al.,	
I	Case No.	
5	!	00957-SD
6	- against -	
7	GOOGLE LLC,	
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14		
	ORAL AND VIDEOTAPED DEPOSITION of	of JOSHUA GANS,
15	produced as a witness at the instance	of the
	Defendant, and duly sworn, was taken	in the
16	above-styled and numbered cause on Oct	tober 10, 2024,
	from 9:00 a.m. to 7:35 p.m., before Me	endy A.
17		
	recorded by machine shorthand, at the	
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1.0	Houston, Texas, pursuant to the Federa	
19	Procedure and the provisions stated or attached hereto; that the deposition s	
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25	Job No. CS6922874	

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the record. Today is October 10, 2024. The time is approximately 9:00 a.m. This is Video 1 of Joshua Gans.  Will reporter please swear in the witness.  JOSHUA GANS, having been first duly sworn, testified as follows:  EXAMINATION  BYMR. EWALT:  Q. Good morning, Professor Gans.  Would you please state and spell your name for the record.  A. Yes. My name is Joshua Gans, J-O-S-H-U-A  Exhibits 1, 2, and 3.  (Marked Gans Exhibit Nos. 1 through 3.)  Q. (BY MR. EWALT) Can you take a moment just to look over those.  Q. Is Exhibit 1 your opening expert report in this  Trevenues using the numerator. The numerator applies a broad definition.  Trevenues using the numerator. The numerator applies a broad definition.  The rewal broad definition.  You'll notice that the word "numerator" is used twice. The second one should have been definition.  A. And, also, with respect to Figure 7, I can't remember exactly which page it was but I'll just tell you now.  There was there was there should have been a footnote that explained where Figure 7 came from. I don't have the footnote with me at the moment, but we can supply it.  Q. Great. And you'll be able to supply the footnote  If A. Yes.  MS. YOUNG: Yes.  MR. EWALT: Great.  A. Those are the only ones that I've noticed or that I recall at the moment.  MS. YOUNG: Yes.  MR. EWALT: Great.  A. Those are the only ones that I've noticed or that I recall at the moment.  Q. (BY MR. EWALT) All right. Thank you.  When did you start working on this case?  A. I was engaged as an expert in 2021.		Inone i con		
2 broad definition. 3 approximately 9:00 a.m. This is Video 1 of 3 you'll notice that the word "numerator" 4 is used wice. The second one should have been 6 denominator. 5 Will reporter please swear in the 6 witness. 7 JOSHUA GANS. 8 having been first duly sworn, testified as follows: 9 E X M MIN AT 1 O N 9		E		Page 8
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12   Would you please state and spell your   13   name for the record.   13   name for the record.   14   A. Yes. My name is Joshua Gans, J-O-S-H-U-A   15   G-A-N-S.   15   G-A-N-S.   15   Godinote -   16   A. Yes.   17   Q. Great. And you'll be able to supply the   18   G-A-N-S.   18   (Marked Gans Exhibit No. 1 through 3.)   19   Q. (BY MR. EWALT) Can you take a moment just to   10   Qoik over those.   20   MR. EWALT) Can you take a moment just to   21   A. Yes.   22   Q. Is Exhibit 1 your opening expert report in   23   this case?   23   Q. Is Exhibit 2 your rebuttal report in this   24   A. Yes.   24   A. Yes.   25   Q. Is Exhibit 3 an errata sheet to your opening   25   A. Yes.   26   Q. Do your opening report and rebuttal report   27   contain all of the opinions that you are offering in   3   4. Yes.   10   MS. YOUNG: Objection; form. Sorry.   10   Q. Mr. EwALT) All right. That's - well, that's   10   MS. YOUNG: Objection; form. Sorry.   10   Q. In - did you do any work in relation to this   matter before September 2021?   A. Yes.   10   MS. YOUNG: Objection; form. Sorry.   10   Q. In - did you do any work in relation to this   matter before September 2021?   A. Yes.   11   Ms. Your opening report and rebuttal report and rebuttal report contain all of the bases for the   opinions that you are offering in this case?   10   A. Yes.   11   Mr. Gans, let me object before you   12   answer.   12   A. Yes.   13   MS. YOUNG: Professor Gans, I'm going to   15   Cauthon your opening report or in relation to this   16   Cauthon your opening report or in this case because those are not   16   A. Yes.   17   Cauthon you not to disclose any communications you had with counsel in this case because those are not   16   A. Yes.   17   Cauthon your opening report and   18   Cauthon your opening report and   19   Cauthon your opening report and   19   Cauthon your opening report   1			10	
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3 (Pages 6 - 9)

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	Page 10		Page 12
1	Go ahead.	1	remember the parties because it was back it was
2	A. That would be approximately a year earlier.	2	almost back in 2007 or so. And one of the parties was
3	Q. (BY MR. EWALT) Okay. Approximately how many	3	a company called Digene. And I can't remember the
	hours have you worked on this matter from when you	4	other party, which is a shame, because they were my
	started until today?	5	client.
6	A. It's been a number of years. I don't	6	Q. The other party was your client?
	remember the exact amount but it would be several	7	A. Yes.
	hundred.	8	Q. Okay. Apart from that matter in 2007
9	Q. And you're getting paid a thousand dollars	9	involving Digene, has a U.S. court ever qualified you
	per hour for your work on the matter?	10	as an expert witness in an antitrust case?
11	A. For yes, for my billable hours.	11	MS. YOUNG: Objection; form.
12	Q. Approximately how much have you been paid in	12	A. So what do you mean by "qualified"?
	all for your work in this matter?	13	I have I've been deposed in antitrust
14	A. I don't I don't I don't know the exact	14	cases.
15	amount because I don't know the hours.	15	Q. (BY MR. EWALT) Sure.
16	Q. More than a million dollars?	16	Did you I'm referring to you testifying at
17	A. Oh, no, I don't believe so.	17	a trial
18	Q. More than \$500,000?	18	A. Oh, at a trial.
19	A. It's over four years, so I'm not sure	19	Q as an expert witness?
	exactly.	20	A. At a trial. No, I have not testified as a
21	Q. Do you know whether it's more or less than	21	at an actual trial that resulted in from a U.S.
	\$500,000	22	antitrust case.
23	(Speaking simultaneously.)	23	Q. Okay. Have you been deposed in U.S.
24	A. I can't tell you what it is.	24	antitrust cases prior to this case?
25	(Discussion off the record.)	25	A. Yes.
	Page 11		Page 13
1	Q. (BY MR. EWALT) Do you know whether it was	1	Q. And one of those was the Digene case?
2	more or less than \$500,000 that you've been paid on	2	A. One of those was the Digene case.
3	this matter since you started work?	3	Another one was a case against Meta.
4	A. I do not know.	4	Q. When was that case?
5	Q. What is your best estimate of the amount that	5	A. That that deposition was last year.
6	you've been paid for your work on this matter since	6	Q. In the Digene case, what was the nature of
7	you started?	7	your testimony?
8	A. Oh, boy. My best estimate, I really need to	8	A. I'm trying to recall, but I believe I
9	know the number of hours that I've worked exactly to	9	believe that it was with respect to a characterization
10	provide that. So if it was 300 hours, which it could	10	of conduct that violated, and you'll forgive me if
11	have been, then 300,000.	11	I'm not sure if it was just Section 2 of the Sherman
12	Q. Is 300 300 hours your best estimate of the	12	antitrust case. There might have been others as well
13	amount of time you spent on this matter?	13	Q. Did you reach any conclusions about market
14	MS. YOUNG: Objection; form.	14	definition in that case?
15	You may answer.	15	A. I would have, but I don't recall the case
16	A. I was just giving an example. I really don't	16	enough.
17	have the exact number.	17	Q. Okay. What were the nature of your opinions
18	Q. (BY MR. EWALT) Have you ever excuse me.	18	in the Meta case?
19	Strike that.	19	A. The nature of my opinions in the Meta case
20	Has a U.S. court ever qualified you as an	20	was it was what was the nature of my
1	expert in an antitrust case?	21	MS. YOUNG: And I'll caution you that
21		22	that case might have been governed by a protective
21 22	MS. YOUNG: Objection; form.	22	
	MS. YOUNG: Objection; form.  A. Yes.	23	order. So if you have any concerns about violating a
22	•		

4 (Pages 10 - 13)

	Page 14		Page 16
1	MS. YOUNG: any confidentiality with	1	have binders, and there are the reports. It might be
2	respect to	2	easier for him to flip through.
3	THE WITNESS: Right.	3	MR. EWALT: That's fine.
4	MS. YOUNG: Meta's information	4	MS. YOUNG: And and I just
5	yeah let me speak. Yeah. Happy to discuss those,	5	MR. EWALT: Let's just go off the
6	but I want to caution you with respect to that.	6	record.
7	You may answer now.	7	MS. YOUNG: Yeah.
8	A. I I've been doing this case for a bit, and	8	THE VIDEOGRAPHER: We're now going off
9	I have I'm I'm I'm trying to remember exactly	9	the record. The time is approximately 9:12.
10	what my report was in the Meta case. It wasn't a very	10	(Break from 9:12 a.m. to 9:13 a.m.)
11	long report on a matter on the matter at hand, and	11	THE VIDEOGRAPHER: Now back on the
12	I just can't remember what my assignment was for that	12	record. The time is approximately 9:13.
13	one.	13	Q. (BY MR. EWALT) Professor Gans, do you have in
14	Q. (BY MR. EWALT) Fair enough.	14	front of you a binder that is a copy of Exhibit 1?
15	Switch gears and talk about market definition.	15	A. Yes.
16	What is the purpose of market definition?	16	Q. And is there also a binder in front of you
17	MS. YOUNG: Objection; form.	17	that is a copy of your rebuttal report that is
18	Go ahead.	18	Exhibit 2?
19	A. It depends on the nature of the claims in an	19	A. Yes.
20	antitrust action.	20	Q. Okay. And that's fine if you want to use the
21	Q. (BY MR. EWALT) All right. In a	21	binder throughout the course of the day today. Or
22	monopolization case, what is the purpose of market	22	either binder that is.
23	definition?	23	Would you please turn to Paragraph 127
24	A. It is to understand the nature of the markets	24	of your opening report that's Exhibit 1.
25	that were directly impacted on by the conduct that	25	A. Yes.
	Page 15		Page 17
1	Page 15 is under investigation.	1	Page 17 Q. Is that the paragraph where you discuss the
1 2	-	1 2	
	is under investigation.		Q. Is that the paragraph where you discuss the
2	is under investigation.  Q. Is it fair to say that the one of the	2	Q. Is that the paragraph where you discuss the Brown Shoe factors?
2 3	is under investigation.  Q. Is it fair to say that the one of the purposes of market definition is to identify in the	2 3	Q. Is that the paragraph where you discuss the Brown Shoe factors?  A. Yes, this is a paragraph that I do discuss
2 3 4	is under investigation.  Q. Is it fair to say that the one of the purposes of market definition is to identify in the areas to test whether a particular conduct has	2 3 4	<ul><li>Q. Is that the paragraph where you discuss the Brown Shoe factors?</li><li>A. Yes, this is a paragraph that I do discuss them in.</li></ul>
2 3 4 5	is under investigation.  Q. Is it fair to say that the one of the purposes of market definition is to identify in the areas to test whether a particular conduct has competitive effects?	2 3 4 5	<ul> <li>Q. Is that the paragraph where you discuss the Brown Shoe factors?</li> <li>A. Yes, this is a paragraph that I do discuss them in.</li> <li>Q. Do the Brown Shoe factors come from a U.S.</li> </ul>
2 3 4 5 6	is under investigation.  Q. Is it fair to say that the one of the purposes of market definition is to identify in the areas to test whether a particular conduct has competitive effects?  MS. YOUNG: Objection; form.	2 3 4 5 6	<ul> <li>Q. Is that the paragraph where you discuss the Brown Shoe factors?</li> <li>A. Yes, this is a paragraph that I do discuss them in.</li> <li>Q. Do the Brown Shoe factors come from a U.S. Supreme Court case?</li> <li>A. Yes.</li> <li>Q. Do the Brown Shoe factors constitute an</li> </ul>
2 3 4 5 6 7	is under investigation.  Q. Is it fair to say that the one of the purposes of market definition is to identify in the areas to test whether a particular conduct has competitive effects?  MS. YOUNG: Objection; form.  A. That would be fair.	2 3 4 5 6 7	<ul> <li>Q. Is that the paragraph where you discuss the Brown Shoe factors?</li> <li>A. Yes, this is a paragraph that I do discuss them in.</li> <li>Q. Do the Brown Shoe factors come from a U.S.</li> <li>Supreme Court case?</li> <li>A. Yes.</li> <li>Q. Do the Brown Shoe factors constitute an economic methodology for defining a relevant market?</li> </ul>
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2 3 4 5 6 7 8 9	is under investigation.  Q. Is it fair to say that the one of the purposes of market definition is to identify in the areas to test whether a particular conduct has competitive effects?  MS. YOUNG: Objection; form.  A. That would be fair.  Q. (BY MR. EWALT) When you define "markets" in this case, did you examine the Brown Shoe factors?  A. I did.  Q. When you define "markets" in this case, did	2 3 4 5 6 7 8 9	<ul> <li>Q. Is that the paragraph where you discuss the Brown Shoe factors?</li> <li>A. Yes, this is a paragraph that I do discuss them in.</li> <li>Q. Do the Brown Shoe factors come from a U.S.</li> <li>Supreme Court case?</li> <li>A. Yes.</li> <li>Q. Do the Brown Shoe factors constitute an economic methodology for defining a relevant market?</li> </ul>
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5 (Pages 14 - 17)

1	Page 18		Page 20
1	I don't I don't recall any that directly discuss	1	have organized the evidence solely on the Brown Shoe
2	the Brown Shoe factors as a whole.	2	factors.
3	Q. Have you ever taught an economics class about	3	Q. (BY MR. EWALT) Are you referring to the price
4	the Brown Shoe factors?	4	sensitivity factor in Brown Shoe?
5	MS. YOUNG: Objection; form.	5	A. Yes, I am.
6	A. I have taught economic classes on antitrust	6	Q. And I just want to make sure I understand
7	and at times have have referred to those factors.	7	what you're saying.
8	Q. (BY MR. EWALT) Do the Brown Shoe factors help	p 8	Are you saying that the price
9	organize qualitative evidence that may be relevant to	9	sensitivity factor standing alone would have been
10	defining a market?	10	enough for you to reach reliable conclusions about
11	MS. YOUNG: Objection; form.	11	market definition in this case?
12	A. I think they help organize evidence that	12	MS. YOUNG: Objection; form.
13	would be related to a market.	13	A. I I don't tend to think of it in that way.
14	Q. (BY MR. EWALT) And do they help organize	14	Q. (BY MR. EWALT) How do you think about it?
15	qualitative evidence?	15	A. What I'm trying to understand is the conduct
16	A. That would include qualitative evidence.	16	at issue. And the firm that was engaging in that
17	Q. Are the Brown Shoe factors a starting point	17	conduct. And what the set of constraints were
18	for market definition?	18	competitively on the firm in doing that.
19	MS. YOUNG: Objection; form.	19	And I am trying to do so in a way that
20	A. They are one starting point you could use.	20	is economic, to use the literal meaning of the word,
21	Q. (BY MR. EWALT) After considering the Brown	21	in terms of assembling evidence and allowing the court
22	Shoe factors, should an economist undertake a deeper	22	to make determinations on other things that are
23	examination before reaching conclusions about market	23	required to understand the effects of such conduct.
24	definition?	24	Q. When defining markets in this case, did you
25	MS. YOUNG: Objection; form.	25	examine evidence of unique production facilities?
	Page 19		Page 21
1	A. I think that an economist needs to undertake	1	MC VOLING, Objection forms
_		1	MS. YOUNG: Objection; form.
2	whatever investigations are necessary to be confident	2	A. I considered the criteria of unique
3			
	whatever investigations are necessary to be confident in their conclusion.  Q. (BY MR. EWALT) Could you be confident in your	2 3	A. I considered the criteria of unique production facilities.
3	whatever investigations are necessary to be confident in their conclusion.	2 3	A. I considered the criteria of unique
3 4	whatever investigations are necessary to be confident in their conclusion.  Q. (BY MR. EWALT) Could you be confident in your	2 3 4	A. I considered the criteria of unique production facilities.  Q. (BY MR. EWALT) And how did you consider that
3 4 5	whatever investigations are necessary to be confident in their conclusion.  Q. (BY MR. EWALT) Could you be confident in your conclusions relying solely on the Brown Shoe factors	2 3 4 5	<ul> <li>A. I considered the criteria of unique production facilities.</li> <li>Q. (BY MR. EWALT) And how did you consider that criteria?</li> <li>A. I thought about the nature of this industry and the nature of the product and how production</li> </ul>
3 4 5 6	whatever investigations are necessary to be confident in their conclusion.  Q. (BY MR. EWALT) Could you be confident in your conclusions relying solely on the Brown Shoe factors in defining a market?	2 3 4 5 6	<ul> <li>A. I considered the criteria of unique production facilities.</li> <li>Q. (BY MR. EWALT) And how did you consider that criteria?</li> <li>A. I thought about the nature of this industry</li> </ul>
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6 (Pages 18 - 21)

	Page 22		Page 24
1	MS. YOUNG: Objection; form.	1	sell other products?
2	A. I believe I discussed it in my rebuttal	2	A. Oh, yes.
3	report, Exhibit 2.	3	Q. Can some publisher ad servers for open web
4	Q. (BY MR. EWALT) Yeah. You may take a look at	4	display advertising also be used to serve in-app
5	Paragraph 82.	5	advertising?
6	A. Okay. Yes. In Paragraph 82 is the paragraph	6	A. Yes, they can.
7	I discussed it.	7	Q. Can some publishers ad servers for open web
8	Q. And in that paragraph, you discuss that it's	8	display advertising also be used to serve video ads?
9	not not helpful to consideration, correct?	9	A. The the suppliers of them, yes.
10	A. That is correct.	10	Q. Do some vendors of ad exchanges also sell
11	Q. Beyond stating an opinion that it's not	11	other products?
12	helpful to consider, did you otherwise discuss unique	12	MS. YOUNG: Objection; form.
13	production facilities in your evaluation of the	13	A. Yes.
14	relevant markets in this case?	14	Q. (BY MR. EWALT) Can some ad exchanges for
15	A. I did not. This is where I, in response to	15	transacting open web display advertising also be used
16	Professor Baye, arguing otherwise I think arguing	16	to transact in-app advertising?
17	otherwise I made a response as to what my	17	A. Yes, I believe they can.
18	consideration was that we've just gone through.	18	Q. Can some ad exchanges for transacting open
19	Q. When defining markets in this case, did you	19	web display advertising also be used to transact video
20	examine evidence of distinct customers?	20	ads?
21	A. We have this page of the report open. I did	21	A. Depending on the platform, yes.
22	consider I did I did consider whether that would	22	Q. Do some vendors of ad-buying tools for small
23	be useful, but I I I didn't classify them	23	advertisers also sell other products?
24	in how I wrote my report as a factor. I didn't find	24	A. Yes.
25	that classification useful relative to the discussion	25	MS. YOUNG: Objection; form.
	Page 23		Page 25
1	I did elsewhere.	1	Oh, let me object first and then you may
2	Q. When defining markets in this case, did you	2	answer.
3	examine evidence of specialized vendors?	3	Q. (BY MR. EWALT) Can some ad-buying tools for
4	A. I thought about specialized vendors and I	4	small advertisers for buying open web display
5			sman advertisers for odynig open web display
-	I believe that I discussed it. And I might be not	5	advertising also be used to buy in-app advertising?
6	I believe that I discussed it. And I might be not recalling correctly at some point in my my opening		
	_	5	advertising also be used to buy in-app advertising?
6	recalling correctly at some point in my my opening	5 6	advertising also be used to buy in-app advertising?  A. Yes.
6 7	recalling correctly at some point in my my opening report.	5 6 7	advertising also be used to buy in-app advertising?  A. Yes.  Q. Can some ad-buying tools for small
6 7 8	recalling correctly at some point in my my opening report.  Q. Okay. But you don't recall, as you sit here,	5 6 7 8	advertising also be used to buy in-app advertising?  A. Yes.  Q. Can some ad-buying tools for small advertisers for buying open web display advertising
6 7 8 9	recalling correctly at some point in my my opening report.  Q. Okay. But you don't recall, as you sit here, where in your opening report you discussed it?	5 6 7 8 9	advertising also be used to buy in-app advertising?  A. Yes.  Q. Can some ad-buying tools for small advertisers for buying open web display advertising also be used to buy video ads?
6 7 8 9 10	recalling correctly at some point in my my opening report.  Q. Okay. But you don't recall, as you sit here, where in your opening report you discussed it?  A. Oh, I can probably find it.	5 6 7 8 9 10	advertising also be used to buy in-app advertising?  A. Yes.  Q. Can some ad-buying tools for small advertisers for buying open web display advertising also be used to buy video ads?  A. I'm not 100 percent sure, but possibly.
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	Page 26		Page 28
1	you examine evidence of sensitivity to price changes?	1	A. I read it and this is just my
2	A. Yes.	2	interpretation as an economist as prices in the
3	Q. What evidence of sensitivity to price changes	3	market you're going to like this prices in the
4	did you examine?	4	market not being not distinct.
5	A. There was a lot. Can you be more specific.	5	In other words, if you think about the
6	Q. Sure.	6	purpose of a definition of of market definition,
7	Would you consider the evidence related	7	one of the things we're trying to understand is what
8	to sensitivity of price changes that you considered to	8	constrains the firm at issue, the firm the conduct
9	be essentially the same evidence that you used in	9	in, for instance, their pricing.
10	applying the hypothetical monopolist test?	10	In order to do that, it is often helpful
11	MS. YOUNG: Objection; form.	11	to have, in the definition of the market, the
12	A. Yes.	12	constraint on pricing be the constraint on the product
13	Q. (BY MR. EWALT) And when defining markets in	13	that is being sold in the market. And that is
14	this case, you examined evidence of distinct prices,	14	distinct from other products that the firm at issue
15	right?	15	might be selling.
16	A. Yes.	16	Q. Distinct in what way?
17	Q. How does your analysis of distinct prices	17	A. Different. It's it's a price for that
18	inform your conclusions about market definition?	18	product.
19	A. Distinct prices allow you to identify	19	Q. Let me ask it this way: When you are
20	products that the people could buy or not buy	20	assessing whether prices are distinct, do you consider
21	independent of other products.	21	whether prices are charged on the same basis?
22	Q. How does well, let me ask you this: What	22	A. Well, let's probably the easiest thing to
23	do you mean by "distinct prices"?	23	do is to look about in my report about where I
24	A. I mean prices that are wholly determined by	24	discuss that, because I think it will probably be
25	suppliers into the you know, that are chosen by	25	indicated to you what I meant by it within the context
	Page 27		Page 29
1	suppliers into the relevant market but are not chosen	1	of the example in the in the case in the report.
2	by suppliers outside the relevant market.	2	Q. Okay. We can try.
3	Q. I'm not following you there.	3	So let me direct you to Paragraph 235 of
4	Prices are always chosen by suppliers,	4	your opening report.
5	right?	5	A. Right. So there I talk about there being
6	A. They are, but the way I read the distinct	6	well, in this case a distinct, independent pricing
7	prices is to say, if I'm an outside observer and I'm	7	
8		7	structure.
	trying to understand who is supplying products that	8	structure.  MS. YOUNG: I don't think there was a
9			
9 10	trying to understand who is supplying products that	8	MS. YOUNG: I don't think there was a
	trying to understand who is supplying products that are are into a market, if the products that are	8 9	MS. YOUNG: I don't think there was a question pending.
10	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and	8 9 10	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.
10 11	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to	8 9 10 11	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.
10 11 12	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and	8 9 10 11 12	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236
10 11 12 13	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product	8 9 10 11 12 13	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you
10 11 12 13 14	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the	8 9 10 11 12 13 14	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure
10 11 12 13 14 15	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they	8 9 10 11 12 13 14 15	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools
10 11 12 13 14 15	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.	8 9 10 11 12 13 14 15 16	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?
10 11 12 13 14 15 16	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.  Q. So I understand your definition of price.	8 9 10 11 12 13 14 15 16 17	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?  A. Yes.
10 11 12 13 14 15 16 17 18	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.  Q. So I understand your definition of price.  I'm trying to understand your definition of a distinct price.	8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?  A. Yes.  Q. And you reach the conclusion that ad-buying tools for small advertisers have a distinct and
10 11 12 13 14 15 16 17 18	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.  Q. So I understand your definition of price.  I'm trying to understand your definition of a distinct	8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?  A. Yes.  Q. And you reach the conclusion that ad-buying
10 11 12 13 14 15 16 17 18 19 20 21	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.  Q. So I understand your definition of price. I'm trying to understand your definition of a distinct price.  MS. YOUNG: Is there a question pending? Q. (BY MR. EWALT) How do you define a distinct	8 9 10 11 12 13 14 15 16 17 18 19 20	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?  A. Yes.  Q. And you reach the conclusion that ad-buying tools for small advertisers have a distinct and independent pricing structure.
10 11 12 13 14 15 16 17 18 19 20	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.  Q. So I understand your definition of price.  I'm trying to understand your definition of a distinct price.  MS. YOUNG: Is there a question pending?  Q. (BY MR. EWALT) How do you define a distinct price?	8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?  A. Yes.  Q. And you reach the conclusion that ad-buying tools for small advertisers have a distinct and independent pricing structure.  Is that fair?  A. Yes.
10 11 12 13 14 15 16 17 18 19 20 21	trying to understand who is supplying products that are are into a market, if the products that are identified have on them a a distinct price and by "price" meaning something that a consumer has to pay that supplier if they consume the product and don't have to if they don't consume the product then that is an indicator that the participants in the market recognize that those are the products that they are selling to the consumer.  Q. So I understand your definition of price. I'm trying to understand your definition of a distinct price.  MS. YOUNG: Is there a question pending? Q. (BY MR. EWALT) How do you define a distinct	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. YOUNG: I don't think there was a question pending.  MR. EWALT: Okay.  MS. YOUNG: Yeah. So yeah.  Q. (BY MR. EWALT) So in Paragraphs 235 and 236 of your opening report, is it fair to say you you apply the distinct and independent pricing structure factor to your candidate market for ad-buying tools for small advertisers?  A. Yes.  Q. And you reach the conclusion that ad-buying tools for small advertisers have a distinct and independent pricing structure.  Is that fair?

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	India: Col		
	Page 30		Page 32
1	various ad-buying tools to small advertisers that are	1	are accepted before they pay out to suppliers, they
2	available in the market and describes the means by	2	take out a commission.
3	which the advertisers are were effectively paid	3	Q. So you agree that ad exchanges charge a
4	or effectively pay sorry to to to	4	commission?
5	pay in the sense of the bids that they offer for which	5	A. Ad exchanges charge well, the terminology
6	a a percentage is the price paid to the provider of	6	we've used here is, I guess to be consistent, take
7	the the ad-buying tool.	7	rate.
8	Q. Correct. That's what Table 3 describes.	8	Q. Okay.
9	A. Yeah.	9	A. That is a percentage of the transaction
10	Q. My question to you is: How can you tell	10	revenue for completed transactions.
11	whether those are distinct from something else?	11	Q. All right. I just want to make sure we got a
12	A. I think this is the case where I am not	12	clear record here.
13	understanding you.	13	A. Yes.
14	Q. All right. Let me try again.	14	Q. So is it your opinion that ad exchanges
15	So the word "distinct" suggests a	15	charge a take rate?
16	comparison between two things.	16	A. My opinion is that there's a take rate that
17	A. Yes.	17	accrues to ad exchanges for completed transactions.
18	Q. Would you agree with that?	18	Q. Is it your opinion that there is a take rate
19	A. Yes.	19	that accrues to small advertiser buying tools for
20	Q. And one of the things that's being compared	20	completed transactions?
21	in Paragraphs 235, 236, and Table 3 of your opening		MS. YOUNG: Objection; form.
22	report is the pricing model of display ad campaigns	22	A. There is.
23	and competing ad-buying tools for small advertisers;	23	Q. (BY MR. EWALT) Is it your opinion that there
24	is that right?	24	is a take rate that accrues to large advertiser buying
25	A. Yes.	25	tools for completed transactions?
	Page 31		Page 33
1	Q. And what are you comparing those pricing	1	MS. YOUNG: Objection; form.
2	models to?	2	A. It is my understanding that there is, yes.
3	A. Oh, I see.	3	Q. (BY MR. EWALT) Can you please explain how you
4	What I I'm when advertisers use	4	reach a conclusion that there are distinct prices for
5	those tools and they commit to a payment for ads, the	5	small advertiser buying tools when a commission
6	provider of these tools will take an amount of that	6	accrues to small advertiser buying tools as well as ad
7	bid, contingent on the bid being ultimately accepted	7	exchanges as well as large advertiser buying tools.
8	as a, for want of a better term, commission.	8	MS. YOUNG: Objection; form.
9	And that is the way in which the buy	9	A. Yes. There there are those are
10	buyers of ads pay for the use of those tools in	10	distinct they're distinct prices in the sense that
11	submitting those bids.	11	if you were to not use those tools, you would not pay
12	Q. And my question was: How does that	12	that price.
13		13	So if you are an advertiser who did not
1	commission compare to anything else?	13	
14	MS. YOUNG: Objection; form.	14	use the small or the such as something like
15	MS. YOUNG: Objection; form. You can answer.		use the small or the such as something like Google Ads, you would not be paying Google for those
15 16	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry.	14	
15 16 17	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of	14 15	Google Ads, you would not be paying Google for those
15 16 17 18	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of other providers of ad-buying tools.	14 15 16	Google Ads, you would not be paying Google for those ads.
15 16 17	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of other providers of ad-buying tools. Q. (BY MR. EWALT) So you would agree that	14 15 16 17	Google Ads, you would not be paying Google for those ads.  Q. (BY MR. EWALT) So is your understanding of
15 16 17 18	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of other providers of ad-buying tools. Q. (BY MR. EWALT) So you would agree that providers of ad-buying tools, such as ad exchanges,	14 15 16 17 18	Google Ads, you would not be paying Google for those ads.  Q. (BY MR. EWALT) So is your understanding of the distinct pricing factor such that prices are
15 16 17 18 19	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of other providers of ad-buying tools. Q. (BY MR. EWALT) So you would agree that	14 15 16 17 18 19	Google Ads, you would not be paying Google for those ads.  Q. (BY MR. EWALT) So is your understanding of the distinct pricing factor such that prices are distinct if customers pay for the product?
15 16 17 18 19 20 21 22	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of other providers of ad-buying tools. Q. (BY MR. EWALT) So you would agree that providers of ad-buying tools, such as ad exchanges,	14 15 16 17 18 19 20	Google Ads, you would not be paying Google for those ads.  Q. (BY MR. EWALT) So is your understanding of the distinct pricing factor such that prices are distinct if customers pay for the product?  MS. YOUNG: Objection; form.
15 16 17 18 19 20 21	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry. A. The commission compares to the commissions of other providers of ad-buying tools. Q. (BY MR. EWALT) So you would agree that providers of ad-buying tools, such as ad exchanges, also charge a commission	14 15 16 17 18 19 20 21	Google Ads, you would not be paying Google for those ads.  Q. (BY MR. EWALT) So is your understanding of the distinct pricing factor such that prices are distinct if customers pay for the product?  MS. YOUNG: Objection; form.  A. Prices are distinct in the sense that if they
15 16 17 18 19 20 21 22	MS. YOUNG: Objection; form. You can answer. THE WITNESS: Sorry.  A. The commission compares to the commissions of other providers of ad-buying tools. Q. (BY MR. EWALT) So you would agree that providers of ad-buying tools, such as ad exchanges, also charge a commission MS. YOUNG: Objection; form.	14 15 16 17 18 19 20 21 22	Google Ads, you would not be paying Google for those ads.  Q. (BY MR. EWALT) So is your understanding of the distinct pricing factor such that prices are distinct if customers pay for the product?  MS. YOUNG: Objection; form.  A. Prices are distinct in the sense that if they do not consume the product, they do not pay that

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	Page 34		Page 30
1	product but pays the price?	1	or products that and this is where the Brown Shoe
2	MS. YOUNG: Objection; form.	2	factors and the hypothetical monopolist test come
3	A. I'm trying to think of a clean example that	3	together ones that people recognize as being the
4	doesn't get us far away from this case.	4	same sort of product, et cetera.
5	Can you repeat the question again?	5	And I say, if the firm in question and
6	Sorry.	6	the suppliers of those products identified got
7	Q. (BY MR. EWALT) That's all right. Let's move	7	together and formed a cartel and acted as a
8	on. Let's talk about the hypothetical monopolist	8	monopolist, could they raise the price of that product
9	test.	9	profitably from a competitive level or not.
10	A. Okay. Okay.	10	Now, that already guides you into a
11	Q. The hypothetical monopolist test is described	11	consideration of whether the consumers facing that
12	in the DOJ and FTC merger guidelines; is that right?	12	hypothetical monopoly if getting a small but
13	A. Yes, they describe it.	13	significant but sustained sustained for a period of
14	Q. And the merger guidelines reflect sound	14	time increase in price would would choose not to
15	economic principles?	15	buy that product at all.
16	MS. YOUNG: Objection; form.	16	And one of the reasons, maybe the one
17	A. Yes.	17	that often comes up most in antitrust analysis, is
18	Q. (BY MR. EWALT) When you applied the	18	maybe the consumers would when they choose not to
19	hypothetical monopolist test in this case, did you	19	buy a particular product divert their spending to
20	depart from the principles in the merger guidelines?	20	another sort of product.
21	MS. YOUNG: Objection; form.	21	Consumers can sometimes, when they don't
22	A. I have not evaluated whether I know that	22	buy a product, divert their spending to other things
23	it is described in the merger guidelines. I have not	23	entirely, but the question is is there another product
24	evaluated whether my approach was different. I do not	24	that's a standout.
25	regard it as such.	25	If the answer is no, then we conclude
	Page 35		Page 3
1	Q. (BY MR. EWALT) Is it fair to say that as far	1	that the firms that have formed the cartel are the
2	as you you know sitting here, you applied the same	2	ones that define the market.
3	hypothetical monopolist test that's described in the	3	If the answer is yes, that consumers
4	merger guidelines?	4	would go to another specific product, we, then, look
5	A. As far I know.	5	at the suppliers of those other products, expand that
6	Q. Could you please describe the hypothetical	6	group of suppliers accordingly, and reconduct the
7	monopolist test?	7	hypothetical monopolist test.
8	A. Yes, certainly.	8	And we keep on doing so until the answer
9	So the hypothetical monopolist test, at	9	is no, at which time we've decided we've we've
10	least as I applied it in this case, I begin with the	10	concluded that this is the market of relevance.
11	conduct at issue in a particular part of conduct. And	11	Q. Thank you very much for that.
12	the firm that is the supply the the firm that	12	If I heard you correctly, does part of
13	engages in that conduct.	13	the hypothetical monopolist test involve consideration
14	And I considered the product, if that is	14	of consumer responses to a small but significant
15	the case, a single product by which the conduct was	15	nontransitory increase in price?
16	related to.	16	A. Part of it, yes.
17	And then I ask for instance, there	17	Q. And that small but significant nontransitory
18	are multiple competitive variables, but let's focus on	18	increase in price is sometimes called a SSNIP?
10 19	price. And I ask for the firm that's supplying that	19	A. Yes.
20	product what are the constraints on the on the	20	Q. And the DOJ and FTC typically use a SSNIP of
20 21	-	20	5 percent; is that correct?
21 22	on its pricing of that product.	22	-
	In particular, I ask are there any	23	MS. YOUNG: Objection; form.  A. The authorities around the world tend to
23	suppliers of other products that constrain the price		
24 25	for which I look first at products that are, for	24	focus on 5 percent as a as a benchmark.
25	instance, functionally in the doing the same thing	25	Q. (BY MR. EWALT) When you applied the

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1	hypothetical monopolist test in this case, did you use	1	consumer substitution in response to a SSNIP above the	
2	a SSNIP of 5 percent?	2	competitive level?	
3	A. The ability to use a SSNIP of 5 percent or an	3	A. The the strictest idealized interpretation	
4	exact quantitative number and to to be resting the	4	of it is that you do that.	
5	analysis on that benchmark would be something done if	5	But you do not necessarily have to	
6	you had well, basically an almost ideal set of data	6	the evidence doesn't necessarily have to identify a	
7	to understand the price elasticity of demand.	7	competitive pricing level in order to apply the	
8	And, more importantly, the cross price	8	hypothetical monopolist test to whittle down or expand	
9	elasticity with respect to other products that was	9	the group of relevant suppliers.	
10	engaged in.	10	Q. Is fair to say that ideally the hypothetical	
11	Without that data, small but significant	11	monopolist test should begin with prices at the	
12	is is a a more is is a less precise	12	competitive level and then examine consumer	
13	increase in price that could include prices that were	13	substitution in response to a SSNIP?	
14	significantly higher than a 5 percent increase.	14	MS. YOUNG: Objection; form.	
15	Q. Could a could it be significantly lower	15	A. That would be ideal.	
16	than a 5 percent price increase?	16	Q. (BY MR. EWALT) Have you ever defined an	
17	A. Yes, certainly.	17	antitrust market without applying the hypothetical	
18	Q. In this case, did you apply the hypothetical	18	monopolist test?	
19	monopolist test using a SSNIP of less than 5 percent?	19	A. In other jurisdictions, the courts have been	
20	MS. YOUNG: Objection; form.	20	comfortable in just thinking about the, you know, more	
21	A. I didn't actually focus on a benchmark of a	21	standard to a traditional expert economics	
22	quantitative one because of the nature of the evidence	22	economics textbook notion of demand and supply	
23	available.	23	substitution as opposed to analyzing that same	
24	My analysis and application was a	24	evidence and interpreting it through the lens of the	
25	consideration of evidence regarding substitutability	25	hypothetical monopolist test.	
	Page 39		Page 41	
1	that did not allow a actual calculation of a price	1	Q. In a matter pending in a U.S. Court, have you	
2	elasticity of demand.	2	ever defined an antitrust market without applying the	
3	Q. (BY MR. EWALT) So would you agree that it's	3	hypothetical monopolist test?	
4	possible to apply the hypothetical monopolist test	4	A. In recent memory, I I don't think I I	
5	without a specific quantitative level ascribed to the	5	have applied it.	
6	small but significant nontransitory increase in price?	6	Q. Is it possible to apply the hypothetical	
7	MS. YOUNG: Objection; form.	7	monopolist test in a quantitative way in this case?	
8	A. Yes.	8	MS. YOUNG: Objection; form.	
9	MS. YOUNG: You may answer.	9	A. In the full being able to provide a confident	
10	A. Yes, I do.	10	estimate of the price elasticity of demand at any	
11	Q. (BY MR. EWALT) Does the hypothetical	11	price, that alone something that would be close to the	
12	monopolist test examine consumer substitution?	12	competitive price, there was insufficient data in this	
13	A. It does.	13	case.	
14	Q. Is consumer substitution the critical	14	Q. (BY MR. EWALT) So did you perform a	
15	question at the heart of market definition?	15	quantitative hypothetical monopolist test in this	
16	MS. YOUNG: Objection; form.	16	case?	
17	A. Depending on the context, I the way I've	17	A. I reviewed quantitative evidence to assist me	
18	described it in the past outside of this case is we're	18	in doing so, but of the nature of actually being able	
19	looking at demand side substitution and sometimes	19	to calculate a robust price elasticity of demand in	
20	supply side substitution.	20	each of the relevant markets that I considered, I was	
21	Q. (BY MR. EWALT) Did you look at supply side	21	not able to do that.	
22	substitution in this case?	22	Q. When you applied the hypothetical monopolist	
23	A. In this case, it was focused on demand side.	23	test in this case, were you examining whether enough	
24	Q. Should the hypothetical monopolist test begin	24	consumers would react to a SSNIP so as to make the	
25	with prices at the competitive level and then examine	25	price increase unprofitable for a hypothetical	

11 (Pages 38 - 41)

	moner con		
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	monopolist?	1	A. Full substitution in this case would be a
2	MS. YOUNG: Objection; form.	2	subset of incremental substitution. In other words,
3	A. I was analyzing whether the volume of sales	3	if you if it was the case that a SSNIP led to
4	would substitute a way in sufficient amount to render	4	nobody buying a product, that automatically tells you
	a increase in price unprofitable.	5	especially if they were nobody was buying a product
6	Q. (BY MR. EWALT) And when you talk about there	6	by switching to another identifiable sets of products
7	being a sufficient amount to render an increase in	7	would automatically tell you that you've drawn them
8	price unprofitable, is that sometimes called marginal	8	the definition of the market too narrowly.
9	substitution?	9	Q. Is it possible that a candidate relevant
10	MS. YOUNG: Objection; form.	10	market would pass the hypothetical monopolist test if
11	A. I guess it could sometimes be called that,	11	only a full substitution analysis were performed but
12	yes.	12	failed the hypothetical monopolist test if an
13	Q. (BY MR. EWALT) And does marginal substitution		incremental substitution analysis were performed?
	differ from full substitution?	14	MS. YOUNG: Objection; form.
15	A. What I would describe full substitution as is	15	A. No, as one is a substitute of the other.
	when you've got an increase in price such that no one	16	Q. (BY MR. EWALT) So I'm going to ask you about
17	consumes the product anymore whereas I guess marginal	17	that idea a little bit more.
18	substitution is where I've got an increase in in	18	As I understand it, if you have a full
	price and there's an increment of a substitution	19	substitution analysis, you're asking if all customers
20	which, I think we can use interchangeably. How's	20	would stop using the product in response to a SSNIP,
	that?	21	right?
22	Q. All right. Let me just make sure I got this	22	MS. YOUNG: Objection; form.
	right.	23	A. I guess you could do that.
24	So	24	I I'm the only thing I'm
25	A. Let me just clarify.	25	struggling to is that I don't think of substitution in
	Page 43		Page 45
1	The the term "marginal" sometimes to	1	full substitution terms, usually.
2	an economist means marginal you know, the quantum	2	That would be a that would be sort of
3	of a derivative in calculus where sometimes it's more	3	a a thing that we sometimes describe to our
4	useful term for what is being done is incremental.	4	students as as possible but not something that
5	Q. Okay. All right. Just so just to make	5	comes up in reality.
6	sure we've got the terminology down here, would an	6	Q. (BY MR. EWALT) And you would agree that the
7	examination of full substitution focus on whether	7	purpose of the hypothetical monopolist test is to
8	customers will stop using the relevant product	8	investigate incremental substitution?
9	entirely if faced with a SSNIP?	9	
10	•		A. It is to investigate the the magnitude of
10	A. Yes.	10	that incremental substitution, the the well, the
11	<ul><li>A. Yes.</li><li>Q. And would an examination of incremental</li></ul>	10 11	that incremental substitution, the the well, the size of it.
11 12	A. Yes. Q. And would an examination of incremental substitution or marginal substitution focus on whether	10	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical
11	A. Yes. Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant	10 11	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would
11 12 13 14	A. Yes. Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?	10 11 12	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be
11 12 13 14 15	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.	10 11 12 13	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise
11 12 13 14 15 16	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.  A. Enough customers using reducing their	10 11 12 13 14	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?
11 12 13 14 15 16 17	A. Yes. Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form. A. Enough customers using reducing their consumption by enough.	10 11 12 13 14 15 16 17	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.
11 12 13 14 15 16 17 18	A. Yes. Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form. A. Enough customers using reducing their consumption by enough. Q. (BY MR. EWALT) Okay. Fair.	10 11 12 13 14 15 16	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full
11 12 13 14 15 16 17 18	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.  A. Enough customers using reducing their consumption by enough.  Q. (BY MR. EWALT) Okay. Fair.  Should the hypothetical monopolist test	10 11 12 13 14 15 16 17 18 19	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full substitution would not be sufficient to reach a
11 12 13 14 15 16 17 18	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.  A. Enough customers using reducing their consumption by enough.  Q. (BY MR. EWALT) Okay. Fair.  Should the hypothetical monopolist test examine whether marginal substitution or incremental	10 11 12 13 14 15 16 17 18	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full substitution would not be sufficient to reach a conclusion about the definition of a relevant market?
11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form. A. Enough customers using reducing their consumption by enough. Q. (BY MR. EWALT) Okay. Fair. Should the hypothetical monopolist test examine whether marginal substitution or incremental substitution is sufficient to defeat a SSNIP?	10 11 12 13 14 15 16 17 18 19	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full substitution would not be sufficient to reach a conclusion about the definition of a relevant market?  MS. YOUNG: Objection; form.
11 12 13 14 15 16 17 18 19 20	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.  A. Enough customers using reducing their consumption by enough.  Q. (BY MR. EWALT) Okay. Fair.  Should the hypothetical monopolist test examine whether marginal substitution or incremental substitution is sufficient to defeat a SSNIP?  A. That is one way you could apply it.	10 11 12 13 14 15 16 17 18 19 20	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full substitution would not be sufficient to reach a conclusion about the definition of a relevant market?  MS. YOUNG: Objection; form.  Sorry. Go ahead.
11 12 13 14 15 16 17 18 19 20 21	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.  A. Enough customers using reducing their consumption by enough.  Q. (BY MR. EWALT) Okay. Fair.  Should the hypothetical monopolist test examine whether marginal substitution or incremental substitution is sufficient to defeat a SSNIP?  A. That is one way you could apply it.  Q. Is it appropriate for the hypothetical	10 11 12 13 14 15 16 17 18 19 20 21	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full substitution would not be sufficient to reach a conclusion about the definition of a relevant market?  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. If you found that full substitution would
11 12 13 14 15 16 17 18 19 20 21 22	A. Yes.  Q. And would an examination of incremental substitution or marginal substitution focus on whether enough customers will reduce usage of the relevant product if faced with a SSNIP?  MS. YOUNG: Objection; form.  A. Enough customers using reducing their consumption by enough.  Q. (BY MR. EWALT) Okay. Fair.  Should the hypothetical monopolist test examine whether marginal substitution or incremental substitution is sufficient to defeat a SSNIP?  A. That is one way you could apply it.	10 11 12 13 14 15 16 17 18 19 20 21 22	that incremental substitution, the the well, the size of it.  Q. Well, the purpose is of the hypothetical monopolist test is to investigate whether there would be enough incremental substitution for it to be unprofitable for a hypothetical monopolist to raise prices by a SSNIP?  A. That's right.  Q. And would you agree that evidence of full substitution would not be sufficient to reach a conclusion about the definition of a relevant market?  MS. YOUNG: Objection; form.  Sorry. Go ahead.

12 (Pages 42 - 45)

	D 46		D 40
1	Page 46 under consideration before you ended up with your	1	Page 48 of your testimony with counsel?
2	market definition.	2	MS. YOUNG: I'm going to object to that
3	Q. (BY MR. EWALT) If you found that full	3	question as to getting to the contents of
4	substitution would not occur, would that be sufficient	4	communication with counsel.
5	to reach a conclusion about the definition of a	5	You can ask him if he had discussions
6	relevant market?	6	with counsel but cannot ask him the contents of those
7	A. No.	7	communications, per the expert stipulation in this
8	Q. If you found that full substitution would	8	case.
9	occur, would that be sufficient to reach a conclusion	9	MR. EWALT: Let's go off the record.
10	about the definition of a relevant market?	10	THE VIDEOGRAPHER: Now going off the
11	A. No.	11	record. The time is approximately 10:19.
12	Q. Could you please turn to Paragraph 124 of	12	(Break from 10:19 a.m. to 10:20 a.m.)
13	your rebuttal report, Exhibit 2.	13	THE VIDEOGRAPHER: Back on the record.
			The time is 10:20.
14	A. Sorry. Could you say that	14	
15	Q. Paragraph 124.	15	Q. (BY MR. EWALT) Professor Gans, during the
16	And the first sentence of that paragraph	16	break, prior to the one-minute break we just took, did
17	reads: "Moreover, because the ad server fee is above	17	you have discussions about this case with counsel?
18	competitive levels at present"	18	MS. YOUNG: I'm going to object again as
19	And then it continues.	19	to going to the contents of communications with
20	Do you see that?	20	counsel when you asked about about this case.
21	A. Yes.	21	MR. EWALT: Are you instructing him not
22	Q. Which ad server fee are you referring to?	22	to answer?
23	A. I don't recall what those paragraph	23	MS. YOUNG: I am instructing him not to
24	before.	24	answer as to the contents of communication with
25	I think that might have more	25	counsel.
	Page 47		Page 49
1	accurately by at the ad server fee the ad	1	Q. (BY MR. EWALT) All right. Let's go back to
2	server fee the people are the customers are paying,	2	Paragraph 124 of your rebuttal report.
3			
	which, of course, are the fees that I used to	3	And we were looking at the statement regarding
4	calculate in the previous paragraph. I used the	4	ad server fees above competitive levels.
4 5	calculate in the previous paragraph. I used the plural "fees" there.	4 5	ad server fees above competitive levels.  A. Yes.
4	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going	4 5 6	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean
4 5	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you	4 5 6 7	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean ad server fees, plural.
4 5 6	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.	4 5 6	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?
4 5 6 7	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a	4 5 6 7	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.
4 5 6 7 8 9	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?	4 5 6 7 8 9	ad server fees above competitive levels.  A. Yes. Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.
4 5 6 7 8 9 10 11	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a	4 5 6 7 8 9 10 11	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be
4 5 6 7 8 9 10 11 12	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the	4 5 6 7 8 9 10 11 12	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be interpreted depending on how you thought about those
4 5 6 7 8 9 10 11 12 13	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the  MS. YOUNG: Yeah. We can do a break	4 5 6 7 8 9 10 11 12 13	ad server fees above competitive levels.  A. Yes. Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be interpreted depending on how you thought about those fees.
4 5 6 7 8 9 10 11 12 13 14	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the  MS. YOUNG: Yeah. We can do a break every hour.	4 5 6 7 8 9 10 11 12 13 14	ad server fees above competitive levels.  A. Yes. Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be interpreted depending on how you thought about those fees.  Q. (BY MR. EWALT) Do your expert reports
4 5 6 7 8 9 10 11 12 13	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the  MS. YOUNG: Yeah. We can do a break	4 5 6 7 8 9 10 11 12 13	ad server fees above competitive levels.  A. Yes.  Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be interpreted depending on how you thought about those fees.  Q. (BY MR. EWALT) Do your expert reports disclose any basis for your opinion that DFP's ad
4 5 6 7 8 9 10 11 12 13 14	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the  MS. YOUNG: Yeah. We can do a break every hour.  MR. EWALT: Let's go off let's go off the record.	4 5 6 7 8 9 10 11 12 13 14	ad server fees above competitive levels.  A. Yes. Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be interpreted depending on how you thought about those fees.  Q. (BY MR. EWALT) Do your expert reports disclose any basis for your opinion that DFP's ad server fees are presently above competitive levels?
4 5 6 7 8 9 10 11 12 13 14 15 16 17	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the  MS. YOUNG: Yeah. We can do a break every hour.  MR. EWALT: Let's go off let's go off the record.  THE WITNESS: Okay.	4 5 6 7 8 9 10 11 12 13 14 15 16	ad server fees above competitive levels.  A. Yes. Q. And you said that you intended that to mean ad server fees, plural. Do I have that right? MS. YOUNG: Objection; form. You may go ahead. A. I'm I'm I think either could be interpreted depending on how you thought about those fees. Q. (BY MR. EWALT) Do your expert reports disclose any basis for your opinion that DFP's ad server fees are presently above competitive levels? A. As I showed in my opening report, the market
4 5 6 7 8 9 10 11 12 13 14 15 16	calculate in the previous paragraph. I used the plural "fees" there.  MS. YOUNG: Counsel, we've been going for over an hour. So I just want to flag that for you if you reach a good breaking point.  MR. EWALT: Okay. Would you like a break?  THE WITNESS: I'm I'm happy to have a break at the  MS. YOUNG: Yeah. We can do a break every hour.  MR. EWALT: Let's go off let's go off the record.  THE WITNESS: Okay.  THE VIDEOGRAPHER: It's now the end of	4 5 6 7 8 9 10 11 12 13 14 15 16 17	ad server fees above competitive levels.  A. Yes. Q. And you said that you intended that to mean ad server fees, plural.  Do I have that right?  MS. YOUNG: Objection; form.  You may go ahead.  A. I'm I'm I think either could be interpreted depending on how you thought about those fees.  Q. (BY MR. EWALT) Do your expert reports disclose any basis for your opinion that DFP's ad server fees are presently above competitive levels?  A. As I showed in my opening report, the market for ad servers in open web display advertising is not
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13 (Pages 46 - 49)

	moner con		
	Page 50		Page 52
1	A. Well, within that market definition, I've	1	definition, did you reach any conclusion as to whether
	concluded that is not a competitive market.	2	Google's ad exchange fees are presently below, at, or
3	Q. (BY MR. EWALT) Right. So if you don't know	3	above the competitive level?
	what the let me back up.	4	MS. YOUNG: Objection; form.
5	How can you tell whether a price is at	5	A. Because my process involved first defining
	competitive levels?	6	the markets and then assessing the degree of market
7	A. When you have a market that you've concluded	7	power by Google of Google in those markets, I guess
	is not a competitive market and that market is served	8	it was dependent on that.
	by firms that are maximizing profits of some	9	Q. (BY MR. EWALT) Independently of the market
	description in the setting of their prices, you can	10	definition, did you reach any conclusion as to whether
	conclude that the prices are not at the competitive level. Infer from that.	11	Google's ad exchange fees are presently below, at, or
		12	above the competitive level?
13	Q. Can you conclude whether prices are at	13 14	MS. YOUNG: Objection; form.  A. I did not.
	competitive levels independently of the market		
	definition?	15	Q. (BY MR. EWALT) Independently of the market definition, did you reach any conclusion as to whether
16 17	MS. YOUNG: Objection; form.	16 17	•
	A. There are other ways, if you had sufficient data to be able to do that.	18	Google's fees for small advertising buying tools are presently below, at, or above the competitive level?
18 19	Q. (BY MR. EWALT) In this case, did you make any	19	MS. YOUNG: Objection; form.
	attempt to estimate whether ad server fees were at the	20	A. This is similar to the other question, so I
	competitive level independently of the market	21	did not.
	definition?	22	Q. (BY MR. EWALT) So apologies, I've got to ask
23	MS. YOUNG: Objection; form.	23	these again for a broader period of time.
24	A. I considered alternative ways of gathering	24	So let me just ask it again. Okay?
	evidence regarding the competitiveness of the market.	25	Independently of the market definition, did
1	Page 51  And for that particular one, concluded	1	Page 53 you reach any conclusion as to whether Google's fees
	there was insufficient cost side information given	2	for publisher ad servers have at any time been below,
	by available from Google to to make that	3	at, or above the competitive level?
	determination.	4	MS. YOUNG: Objection; form.
5	Q. (BY MR. EWALT) Independently of the market	5	A. I did not.
	definition, did you reach any conclusion as to whether	6	
			O. (BY MR. EWALT) Independently of the market
	Google's ad server fees are presently below, at, or	7	Q. (BY MR. EWALT) Independently of the market definition, did you reach any conclusions as to
8	Google's ad server fees are presently below, at, or above the competitive level?	7	definition, did you reach any conclusions as to
8 9	above the competitive level?	7 8 9	definition, did you reach any conclusions as to whether Google's ad exchange fees have at any time
		8	definition, did you reach any conclusions as to whether Google's ad exchange fees have at any time been below, at, or above the competitive level?
9	above the competitive level?  MS. YOUNG: Objection; form.  A. The context for the statement in the	8 9	definition, did you reach any conclusions as to whether Google's ad exchange fees have at any time been below, at, or above the competitive level?  MS. YOUNG: Objection; form.
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9 10 11 12 13 14 15 16 17 18 19 20 21	above the competitive level?  MS. YOUNG: Objection; form.  A. The context for the statement in the paragraph that we're considering was a rebuttal of particular claims regarding substitution that  Professor Baye made. And that's the context in which I wrote  Q. (BY MR. EWALT) That's fair. I understand the context. I'm just trying to get an answer to the question, though.  A. Oh, okay.  Q. Which was, independently of the market definition, did you reach any conclusion as to whether	8 9 10 11 12 13 14 15 16 17 18 19 20	definition, did you reach any conclusions as to whether Google's ad exchange fees have at any time been below, at, or above the competitive level?  MS. YOUNG: Objection; form.  A. I did not reach a conclusion regarding Google's ad exchange fees.  Q. (BY MR. EWALT) Independently of the market definition, did you reach any conclusions as to whether Google's fees for small advertiser buying tools have at any time been below, at, or above the competitive level?  MS. YOUNG: Objection; form.  A. As with my previous answers in this thread, I did not.
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	above the competitive level?  MS. YOUNG: Objection; form.  A. The context for the statement in the paragraph that we're considering was a rebuttal of particular claims regarding substitution that Professor Baye made. And that's the context in which I wrote  Q. (BY MR. EWALT) That's fair. I understand the context. I'm just trying to get an answer to the question, though.  A. Oh, okay.  Q. Which was, independently of the market definition, did you reach any conclusion as to whether Google's ad server fees are presently below, at, or above the competitive level?	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	definition, did you reach any conclusions as to whether Google's ad exchange fees have at any time been below, at, or above the competitive level?  MS. YOUNG: Objection; form.  A. I did not reach a conclusion regarding Google's ad exchange fees.  Q. (BY MR. EWALT) Independently of the market definition, did you reach any conclusions as to whether Google's fees for small advertiser buying tools have at any time been below, at, or above the competitive level?  MS. YOUNG: Objection; form.  A. As with my previous answers in this thread, I did not.  Q. (BY MR. EWALT) Please turn to Paragraph 158 in your opening report.

14 (Pages 50 - 53)

			D 5
1	Page 54 Q. (BY MR. EWALT) Yes, sir.	1	Page 56 A. Yes. Paragraph 160.
2	A. Okay.	2	Q. Okay. Where in Paragraph 160 do you discuss
3	Q. Does Paragraph 158 describe how you applied	3	incremental substitution?
4	the hypothetical monopolist test in defining a	4	A. Well, I discussed incremental substitution
5	publisher ad server market?	5	that would be facilitated by building in-house ad
6	MS. YOUNG: Objection; form.	6	serving capabilities, the plain reading of which is
7	A. Let me briefly	7	that the publishers would then use some of their ad
8	Q. (BY MR. EWALT) Sure.	8	serving through those in-house capabilities.
9	A read this.	9	Q. Where do you describe substitution between
10	Yes.	10	in-house ad servers and third-party ad servers?
11	Q. Okay. In the last sentence of Paragraph 158,	11	A. In in-house and third-party ad servers?
12		12	Q. Not in-house and servers. That's what I mean
	you wrote: "It is highly unlikely a 5 percent price increase in the market for publisher ad server used		
13		13 14	by third-party ad servers.
14	for the sale of open web display advertising would		A. Oh, I see, I see.
15	cause the publishing giant to eliminate digital	15	Q. So let me ask it again.
16	advertising from its content."	16	Where in Paragraph 160 do you discuss
17	Do you see that?	17	incremental substitution between ad servers and
18	A. I see that statement.	18	in-house ad servers?
19	Q. Is it fair to say that in Paragraph 158, you	19	A. I don't in that paragraph.
20	examined whether a SSNIP for publisher ad servers	20	Q. Okay. Do you discuss incremental
21	would lead The New York Times to completely stop	21	substitution in Paragraph 159?
22	selling digital advertising and rely instead on	22	A. Yes.
23	subscriptions as its sole source of revenue?	23	Q. Where?
24	MS. YOUNG: Objection; form.	24	A. Throughout.
25	A. Can you repeat that question again?	25	Q. Could you point to the specific language in
	Page 55		Page 57
1	Q. (BY MR. EWALT) Is it fair to say that in	1	Paragraph 159 where you discuss incremental
2	Paragraph 158 you examined whether a SSNIP for	2	substitution?
3	publisher ad servers would lead The New York Times to	3	A. With statements such as "lose significant
4	completely stop selling digital advertising and rely	4	
5			revenue" or "a large proportion of user base."
_	instead on subscriptions as its sole source of	5	Q. Do you connect that incremental substitution
6	revenue?		Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist
7		5	Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist test?
	revenue?	5 6	Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist
7	revenue?  MS. YOUNG: Same objection.  A. That that paragraph discusses, you know, one possibility that could arise from that.	5 6 7	<ul> <li>Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist test?</li> <li>MS. YOUNG: Objection; form.</li> <li>Q. (BY MR. EWALT) Let me rephrase.</li> </ul>
7 8	revenue?  MS. YOUNG: Same objection.  A. That that paragraph discusses, you know,	5 6 7 8	<ul> <li>Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist test?</li> <li>MS. YOUNG: Objection; form.</li> <li>Q. (BY MR. EWALT) Let me rephrase.</li> <li>You just pointed to some language in</li> </ul>
7 8 9	revenue?  MS. YOUNG: Same objection.  A. That that paragraph discusses, you know, one possibility that could arise from that.  Q. (BY MR. EWALT) Does Paragraph 158 analyze incremental or marginal substitution?	5 6 7 8 9	<ul> <li>Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist test?</li> <li>MS. YOUNG: Objection; form.</li> <li>Q. (BY MR. EWALT) Let me rephrase.</li> <li>You just pointed to some language in</li> <li>Paragraph 159 that you've characterized as relating to</li> </ul>
7 8 9 10	revenue?  MS. YOUNG: Same objection.  A. That that paragraph discusses, you know, one possibility that could arise from that.  Q. (BY MR. EWALT) Does Paragraph 158 analyze incremental or marginal substitution?  A. That paragraph provides a information on	5 6 7 8 9 10	<ul> <li>Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist test?</li> <li>MS. YOUNG: Objection; form.</li> <li>Q. (BY MR. EWALT) Let me rephrase.</li> <li>You just pointed to some language in</li> </ul>
7 8 9 10 11	revenue?  MS. YOUNG: Same objection.  A. That that paragraph discusses, you know, one possibility that could arise from that.  Q. (BY MR. EWALT) Does Paragraph 158 analyze incremental or marginal substitution?	5 6 7 8 9 10 11	Q. Do you connect that incremental substitution to the profitability for the hypothetical monopolist test?  MS. YOUNG: Objection; form. Q. (BY MR. EWALT) Let me rephrase. You just pointed to some language in Paragraph 159 that you've characterized as relating to incremental substitution. My question is: Does that language connect or
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15 (Pages 54 - 57)

	Page 58		Page 60
1	profitability.	1	market for ad exchanges?
2	Q. (BY MR. EWALT) Where does it describe	2	A. Yes.
3	profitability in Paragraph 159?	3	Q. Are ad exchanges two-sided transaction
4	A. I said it described the components of it,	4	platforms?
5	the which is the amount of sales that would be lost		A. That is a word that you could use for them.
6	should publishers be considering changing their	6	Q. When you define a market for ad exchanges,
7	business model to a subscription model.	7	did you focus on how publishers would respond to a
8	Q. Do you reach any conclusion as to whether it	8	SSNIP?
9	would be profitable for publishers to change their	9	MS. YOUNG: Objection; form.
10	business model to a subscription model?	10	A. I I focused on should the amount that the
11	A. I do.	11	ad exchange is charging publishes in terms of taking
12	Q. Where?	12	revenue from advertisers if that increased what the
13	A. In the components that would be significantly	13	publisher's substitution options would be.
14	costly and so.	14	Q. (BY MR. EWALT) When you defined a market for
15	Q. So you don't use the word "profit"?	15	ad exchanges, did you consider advertisers' options in
16	A. I don't use the word "profit." I said I	16	response to a SSNIP?
17	looked at the components of profit.	17	MS. YOUNG: Objection; form.
18	MS. YOUNG: And let him finish his	18	A. For advertisers, the consideration would
19	question before you answer. You talked over each	19	be would require substitution, would be things that
20	other a little there.	20	were were part of the terms of trade that
21	Q. (BY MR. EWALT) All right, sir, let's talk	21	were not necessarily the take rate of the ad exchange.
22	about ad exchanges.	22	Q. (BY MR. EWALT) So did you not consider
23	Is the key function of an ad exchange to match	23	advertiser responses to a SSNIP when you were defining
24	buyers and sellers of display advertising?	24	a market for ad exchanges?
25	MS. YOUNG: Objection; form.	25	A. Well
	Page 59		Page 61
1			rage of
1	A. It is to do so using information and bids.	1	MS. YOUNG: Objection; form.
1 2		1 2	_
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2	<ul><li>A. It is to do so using information and bids.</li><li>Q. (BY MR. EWALT) So you agree then that a key</li></ul>	2	MS. YOUNG: Objection; form. You may answer.
2 3	A. It is to do so using information and bids.  Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and	2 3	MS. YOUNG: Objection; form. You may answer. A. Well, in this particular case, the
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2 3 4 5	A. It is to do so using information and bids.  Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising?  MS. YOUNG: Same objection.	2 3 4 5	MS. YOUNG: Objection; form. You may answer. A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as
2 3 4 5 6	<ul> <li>A. It is to do so using information and bids.</li> <li>Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising?</li> <li>MS. YOUNG: Same objection.</li> <li>A. It is to find opportunities for matches and</li> </ul>	2 3 4 5 6	MS. YOUNG: Objection; form. You may answer. A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as nonprice.
2 3 4 5 6 7	<ul> <li>A. It is to do so using information and bids.</li> <li>Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising? MS. YOUNG: Same objection. A. It is to find opportunities for matches and to communicate those to the parties.</li> </ul>	2 3 4 5 6 7	MS. YOUNG: Objection; form. You may answer. A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as nonprice. Q. (BY MR. EWALT) Okay. I'm just asking what
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. It is to do so using information and bids.  Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising?  MS. YOUNG: Same objection.  A. It is to find opportunities for matches and to communicate those to the parties.  Q. (BY MR. EWALT) For each transaction on an ad exchange, is there always exactly one buyer and one seller?  MS. YOUNG: Objection to form.  A. If a transaction is completed? You mean if a match is found?  Q. (BY MR. EWALT) (Nodding head.)  A. From the point of view of the ad exchange, yes.  Q. For each transaction on an ad exchange, do the buyer and seller interact simultaneously?  MS. YOUNG: Objection; form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form. You may answer.  A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as nonprice.  Q. (BY MR. EWALT) Okay. I'm just asking what you did.  A. Yeah. Q. Did you consider advertiser responses to a SSNIP when you were defining a market for ad exchanges?  MS. YOUNG: Same objection.  A. I can't recall whether I looked at that particularly given the way that I it's in my mind now, but we could have a look at the report to see.  Q. (BY MR. EWALT) Well, how do you let's not let's step back and say let me let me go back for one second.  You said that you could define ad exchanges you could consider ad exchanges to be a two-sided
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. It is to do so using information and bids.  Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising?  MS. YOUNG: Same objection.  A. It is to find opportunities for matches and to communicate those to the parties.  Q. (BY MR. EWALT) For each transaction on an ad exchange, is there always exactly one buyer and one seller?  MS. YOUNG: Objection to form.  A. If a transaction is completed? You mean if a match is found?  Q. (BY MR. EWALT) (Nodding head.)  A. From the point of view of the ad exchange, yes.  Q. For each transaction on an ad exchange, do the buyer and seller interact simultaneously?  MS. YOUNG: Objection; form.  A. The buyer and seller submit information to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. YOUNG: Objection; form. You may answer. A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as nonprice. Q. (BY MR. EWALT) Okay. I'm just asking what you did. A. Yeah. Q. Did you consider advertiser responses to a SSNIP when you were defining a market for ad exchanges?  MS. YOUNG: Same objection. A. I can't recall whether I looked at that particularly given the way that I it's in my mind now, but we could have a look at the report to see. Q. (BY MR. EWALT) Well, how do you let's not let's step back and say let me let me go back for one second. You said that you could define ad exchanges
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It is to do so using information and bids.  Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising?  MS. YOUNG: Same objection.  A. It is to find opportunities for matches and to communicate those to the parties.  Q. (BY MR. EWALT) For each transaction on an ad exchange, is there always exactly one buyer and one seller?  MS. YOUNG: Objection to form.  A. If a transaction is completed? You mean if a match is found?  Q. (BY MR. EWALT) (Nodding head.)  A. From the point of view of the ad exchange, yes.  Q. For each transaction on an ad exchange, do the buyer and seller interact simultaneously?  MS. YOUNG: Objection; form.  A. The buyer and seller submit information to the ad exchange. And the ad exchange considers that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. YOUNG: Objection; form. You may answer.  A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as nonprice.  Q. (BY MR. EWALT) Okay. I'm just asking what you did.  A. Yeah. Q. Did you consider advertiser responses to a SSNIP when you were defining a market for ad exchanges?  MS. YOUNG: Same objection.  A. I can't recall whether I looked at that particularly given the way that I it's in my mind now, but we could have a look at the report to see.  Q. (BY MR. EWALT) Well, how do you let's not let's step back and say let me let me go back for one second.  You said that you could define ad exchanges you could consider ad exchanges to be a two-sided
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It is to do so using information and bids.  Q. (BY MR. EWALT) So you agree then that a key function of an ad exchange is to match buyers and sellers of display advertising?  MS. YOUNG: Same objection.  A. It is to find opportunities for matches and to communicate those to the parties.  Q. (BY MR. EWALT) For each transaction on an ad exchange, is there always exactly one buyer and one seller?  MS. YOUNG: Objection to form.  A. If a transaction is completed? You mean if a match is found?  Q. (BY MR. EWALT) (Nodding head.)  A. From the point of view of the ad exchange, yes.  Q. For each transaction on an ad exchange, do the buyer and seller interact simultaneously?  MS. YOUNG: Objection; form.  A. The buyer and seller submit information to the ad exchange. And the ad exchange considers that information together which from an economist point of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. YOUNG: Objection; form. You may answer.  A. Well, in this particular case, the substitution triggers for advertisers would be perhaps what you would regard what we would regard as nonprice.  Q. (BY MR. EWALT) Okay. I'm just asking what you did.  A. Yeah. Q. Did you consider advertiser responses to a SSNIP when you were defining a market for ad exchanges?  MS. YOUNG: Same objection.  A. I can't recall whether I looked at that particularly given the way that I it's in my mind now, but we could have a look at the report to see.  Q. (BY MR. EWALT) Well, how do you let's not let's step back and say let me let me go back for one second.  You said that you could define ad exchanges you could consider ad exchanges to be a two-sided transaction platform, right?

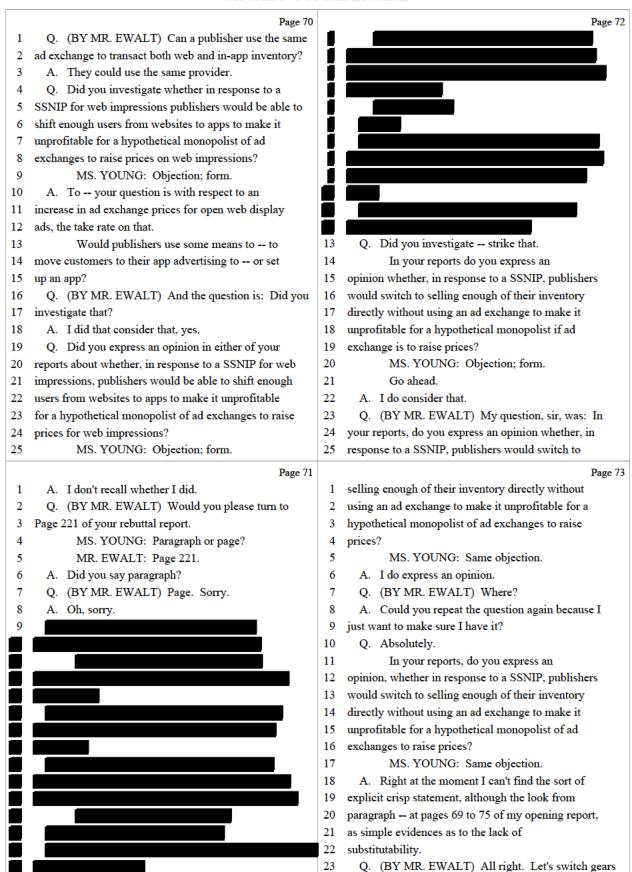
16 (Pages 58 - 61)

	HIGHLY CO	NFI	DENTIAL
	Page 62		Page 64
1	MS. YOUNG: Objection; form.	1	considered advertiser responses to a SSNIP when you
2	A. The ad exchange itself is performing the	2	were defining a market for ad exchanges.
3	function of matching given the information from	3	A. Okay.
4	advertisers and publishers.	4	Okay.
5	Q. (BY MR. EWALT) Okay. So, yes or no, do you	5	Q. Did you consider advertiser responses to a
6	consider ad exchanges to be two-sided transaction	6	SSNIP when you defined a market for ad exchanges?
7	platforms?	7	MS. YOUNG: Objection; form.
8	MS. YOUNG: Objection; form.	8	A. I did not find it necessary to do so because
9	Go ahead.	9	the application of the hypothetical monopolist test in
10	A. The my reason for hesitation in sort of	10	the procedure that I outlined earlier in our
11	doing that word well, let me let me put it this	11	discussion stopped prior to having to do that.
12	way, and maybe this will be easier on us.	12	Q. (BY MR. EWALT) When you defined a market for
13	Can you define what you mean by	13	ad exchanges, did you consider only the responses of
14	"two-sided transaction platform"?	14	publishers to a SSNIP?
15	Q. (BY MR. EWALT) So we've been talking about	15	MS. YOUNG: Objection; form.
16	it. I understand it's a term of art in economics.	16	A. When I was considering the set of suppliers
17	A. It is?	17	of products, it turned out that the publishers were
18	Q. It's do you disagree? Do you think it	18	the ones who had the least substitution possibilities.
19	a two-sided transaction platform is not an economic	19	So that side of the market bound in
20	term?	20	applying the hypothetical monopolist test, meaning
21	A. I think "two-sided platform" is or	21	that is all I had to consider to be satisfied with the
22	"multi-sided platform" is a term of art in economics.	22	market's boundaries.
23	I think "multi-sided matching" is a term	23	Q. (BY MR. EWALT) Would you please turn to
24	of art in in economics.	24	Paragraph 149 of your rebuttal report.
25	I am concerned when you insert the word	25	That paragraph reads: "In connection with my
	Page 63		Page 65
1	"transaction" into it you are meaning something	1	HMT for ad exchanges, in Paragraph 103 I describe an
2	different	2	HMT test conducted by Google referenced by Professor
3	Q. Okay.	3	Milgrom."
4	A than those.	4	Do you see that?
5	Q. That's fair.	5	A. Yes.
6	Are ad exchange strike that.	6	Q. Would you please turn to Paragraph 103 of
7	Do you consider ad exchanges to be	7	your rebuttal report and just take a moment to review
8	two-sided platforms?	8	Paragraphs 103 and 104.
9	MS. YOUNG: Objection; form.	9	Let me know when you're ready.
10	A. I do.	10	A. Yes.
11	Q. (BY MR. EWALT) Do you consider ad exchanges	11	Q. Do you think that in Paragraph 149 of your
12	to be two-sided platforms that match publishers and	12	rebuttal report you meant to refer to Paragraph 104
13	advertisers?	13	rather than Paragraph 103?
14	MS. YOUNG: Objection; form.	14	A. Oh, in paragraph oh, I'm sorry. I I
15	A. That match publishers and advertisers based	15	stopped at 104. Just a second.
16	on the information submitted to the platform.	16	Q. Sure. Sure.
17	Q. (BY MR. EWALT) Do you consider ad exchanges	17	So we started with Paragraph 149.
18	to be two-sided platforms that match publishers and	18	A. Yes.
19	advertisers based on information submitted to the	19	Q. And my question to you is: Do you
20	platform?	20	A. Oh.
21	MS. YOUNG: Objection; form.	21	Q do you think that in Paragraph 149 of your
22	A. Yes.	22	rebuttal report you meant to refer to Paragraph 104
23	Q. (BY MR. EWALT) Okay. So why don't we just	23	rather than Paragraph 103?
24	take a moment here and you can review your report	24	A. I do.
25	both reports and refresh your memory as to whether you	25	Q. All right. I'm handing you a document that's

17 (Pages 62 - 65)

## Page 66 been marked as Exhibit 4. 1 Q. (BY MR. EWALT) Does that imply that if Google 2 (Marked Gans Exhibit No. 4.) increased its price its profit would go down? 3 Q. (BY MR. EWALT) The first page bears Bates No. 3 MS. YOUNG: Objection; form. GOOG-AT-MDL-B-001391461. It's an e-mail dated A. So no. 5 5 September 2, 2015. Q. (BY MR. EWALT) Why not? A. This calculation was based on DRS Version 1. 6 Do you see that? 6 7 7 And what that did is it maintained A. Yes. 8 Q. Is Exhibit 4 the document you discuss in 8 Google's take rate on impressions that it predicted Paragraph 104 of your rebuttal report? 9 9 would be matched at that take rate and reduced the 10 A. Yes. 10 take rate on impressions that it believed would not be Q. Do you interpret Exhibit 4 as a hypothetical matched on AdX, or AdX, at that -- at that take rate, 11 11 12 monopolist test conducted by Google? 12 at the -- at its normal take rate. 13 MS. YOUNG: Objection; form. 13 And so the profit changes are wholly on 14 A. Exhibit 4 was a test, an analysis provided by the increment, which was the additional transactions 14 15 Google, but I don't believe that they were conducting 15 that were matched as a result of Google's discount. 16 a hypothetical monopolist test. 16 Q. So you interpret the third bullet point on 17 Q. (BY MR. EWALT) Do you interpret Exhibit 4 as 17 Page 462 of Exhibit 4 to refer to the profit from only 18 evidence in forming your application of a hypothetical 18 the incremental transactions that occurred because of 19 monopolist test? 19 DRS Version 1? 20 A. I think it is informing any economist 20 A. That is what I interpreted -- that's what it application of the hypothetical monopolist test. 21 21 22 22 Q. And if you look at the page with Bates number Page 67 Page 69 ending in 462, do you see a set of bullets near the 1 top of the page? 2 3 A. Yes. 4 Q. Okay. Do some publishers have both web and 14 in-app advertising inventory? 15 You can put that aside. 16 A. Are we done with this? Okay. 17 MS. YOUNG: Objection; form. 18 Q. (BY MR. EWALT) Let me -- let me ask the 19 question again. 20 MR. EWALT: And you can object again. 21 MS. YOUNG: Yeah. 22 Q. (BY MR. EWALT) Do some publishers have both 23 web and in-app advertising inventory? 24 MS. YOUNG: Same objection. 25 A. Yes.

18 (Pages 66 - 69)



19 (Pages 70 - 73)

24

25

again to advertiser buying tools.

At a high level, do advertisers try to have

	Page 74		Page 7
1	their advertisements shown to consumers who might buy	1	A. Yes, they can.
2	their products?	2	Q. Do advertisers have other ways of reaching
3	A. Yes, for the majority of advertisers.	3	consumers that I haven't asked you about?
4	Q. Can advertisers reach consumers using display	4	MS. YOUNG: Objection; form.
5	advertising on the open web?	5	A. Yes.
6	A. They can.	6	Q. (BY MR. EWALT) Is fair to say that
7	Q. Can advertisers reach consumers using	7	advertisers have a lot of options to reach consumers?
8	advertiser advertising on social media websites	8	MS. YOUNG: Objection; form.
9	like Instagram and TikTok?	9	A. There are a lot of channels, distinct
10	A. They can.	10	channels by which advertisers can reach consumers.
11	Q. Can advertisers reach consumers using	11	Q. (BY MR. EWALT) If advertisers find that
12	advertising on retail websites like Amazon and	12	display advertising on the open web is not performing
13	Walmart?	13	as well relative to other options, can they shift
14	A. Depending on whether their products are	14	their spending away from open web display advertising
15	available in those platforms, yes.	15	and towards other options?
6	Q. Can advertisers reach consumers using	16	MS. YOUNG: Objection; form.
17	advertising in mobile apps?	17	A. Are you are you asking me if they're
18	A. It is possible.	18	allowed to do so?
19	Q. Can Advertisers reach consumers through	19	Q. (BY MR. EWALT) I'm I'll just ask the
20	Direct Deals with publishers?	20	question again.
21	MS. YOUNG: Objection; form.	21	If advertisers find that display advertising
22	A. If they strike a direct deal with the right	22	on the open web is not performing as well relative to
23	sort of publisher, yes.	23	other options, can they shift their advertising
24	Q. (BY MR. EWALT) Can advertisers reach	24	spending away from open web display advertising and
25	consumers using advertising in streaming services or	25	towards other options?
	Page 75		Page 7
1	connected TV?	1	MS. YOUNG: Same objection.
2	A. They if advertise advertisements are	2	A. They could shift that spending to any
3	placed on those channels, yes.	3	activity that they so chose.
4	Q. Can advertisers reach consumers by	4	Q. (BY MR. EWALT) Would you please turn to
5	advertising in podcasts?	5	Paragraph 225 of your opening report.
6	A. Yes, so long as the consumers are are	6	All right. That paragraph reads: "The
_	listening to the ads in the podcast.		abore atoristics of ad buying tools for small
7		7	characteristics of ad-buying tools for small
8	Q. Can advertisers reach consumers by	8	advertisers for buying open web display advertising
8	Q. Can advertisers reach consumers by advertising via e-mail?	8 9	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad
8 9 10	<ul><li>Q. Can advertisers reach consumers by advertising via e-mail?</li><li>A. It is possible for them to do so.</li></ul>	8 9 10	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device
8 9 10	<ul><li>Q. Can advertisers reach consumers by advertising via e-mail?</li><li>A. It is possible for them to do so.</li><li>Q. Can advertisers reach consumers using search</li></ul>	8 9 10 11	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and
8 9 10 11	<ul><li>Q. Can advertisers reach consumers by advertising via e-mail?</li><li>A. It is possible for them to do so.</li><li>Q. Can advertisers reach consumers using search advertising?</li></ul>	8 9 10 11 12	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's
8 9 10 11 12	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> </ul>	8 9 10 11 12 13	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."
8 9 10 11 12 13	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by</li> </ul>	8 9 10 11 12 13 14	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?
8 9 10 11 12 13 14	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> </ul>	8 9 10 11 12 13 14 15	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.
8 9 10 11 12 13 14 15	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> </ul>	8 9 10 11 12 13 14 15 16	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main
8 9 10 11 12 13 14 15 16	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by</li> </ul>	8 9 10 11 12 13 14 15 16 17	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small
8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on radio?</li> </ul>	8 9 10 11 12 13 14 15 16 17 18	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small advertisers?
8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on radio?</li> <li>A. It is possible for for them to reach</li> </ul>	8 9 10 11 12 13 14 15 16 17 18	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small advertisers?  A. Yes, pretty much.
8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on radio?</li> <li>A. It is possible for for them to reach for advertisers to reach consumers via radio.</li> </ul>	8 9 10 11 12 13 14 15 16 17 18 19 20	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small advertisers?  A. Yes, pretty much.  Q. Do DSPs connect with exchangers and sellers
8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on radio?</li> <li>A. It is possible for for them to reach for advertisers to reach consumers via radio.</li> <li>Q. Can advertisers reach consumers by</li> </ul>	8 9 10 11 12 13 14 15 16 17 18 19 20 21	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small advertisers?  A. Yes, pretty much.  Q. Do DSPs connect with exchangers and sellers of ad inventory?
8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on radio?</li> <li>A. It is possible for for them to reach for advertisers to reach consumers via radio.</li> <li>Q. Can advertisers reach consumers by advertising in newspapers and magazines?</li> </ul>	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small advertisers?  A. Yes, pretty much.  Q. Do DSPs connect with exchangers and sellers of ad inventory?  MS. YOUNG: Objection; form.
8 9 10 11	<ul> <li>Q. Can advertisers reach consumers by advertising via e-mail?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers using search advertising?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on broadcasts or cable TV?</li> <li>A. It is possible for them to do so.</li> <li>Q. Can advertisers reach consumers by advertising on radio?</li> <li>A. It is possible for for them to reach for advertisers to reach consumers via radio.</li> <li>Q. Can advertisers reach consumers by</li> </ul>	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	advertisers for buying open web display advertising include connecting with exchanges and sellers of ad inventory, optimizing demographic and cross device targeting, managing advertising campaigns and remarketing campaigns, collecting data on campaign's performance, et cetera."  Do you see that?  A. Yes.  Q. Does that sentence identify the main characteristics of ad-buying tools for small advertisers?  A. Yes, pretty much.  Q. Do DSPs connect with exchangers and sellers of ad inventory?

20 (Pages 74 - 77)

	37414 HIGHLY CON	١FI	DENTIAL
	Page 78		Page 80
1	Q. How about this: Do large advertiser buying	1	not to answer this question. This is going to
2	tools connect with exchanges and sellers about	2	contents of communications between the testifying
3	inventory?	3	expert and staff.
4	A. Yes.	4	MR. EWALT: I just asked who was
5	Q. Do large advertiser buying tools optimize	5	present. I didn't ask what the content of the
6	demographic and cross device targeting?	6	communication was.
7	A. Yes.	7	MS. YOUNG: You may answer who was
8	Q. Do large advertiser buying tools manage	8	present if you recall, but not
9	advertising campaigns and remarketing campaigns?	9	A. I don't recall. I don't recall who was
10	A. Yes.	10	present.
11	Q. Do large advertiser buying tools collect data	11	Q. (BY MR. EWALT) Do you recall whether any
12	on campaign's performance?	12	lawyers were present?
13	A. I believe so.	13	A. I do not recall.
14	Q. Would you please turn to Paragraphs 233 and	14	Q. Do you recall what topics you discussed?
15	234 of your opening report?	15	A. I I recall some of them, yeah. Yes,
16	A. Yes.	16	there's there are ones that we discussed. My
17	Q. Would you agree that a conversation with	17	recollection is contained in the ones that I relied
18	Professor Chandler is the only basis for your opinion	18	upon in the report.
19	that there is industry or public recognition of a	19	Q. Okay. What did Professor Chandler say about
20	market for ad-buying tools for small advertisers?	20	industry participants' views concerning a market for
21	MS. YOUNG: Objection; form.	21	ad-buying tools for small advertisers?
22	A. It is the it is for industry	22	A. He said that small advertisers were defined
23	recognition, yes, it is my basis.	23	by having a relatively small amount of monthly
24	Q. (BY MR. EWALT) And your only basis?	24	advertising, and that one reason they are a distinct
25	MS. YOUNG: Objection; form.	25	market is that they have too little advertising
	Page 79		Page 81
1	A. It's the only basis that I cited in the	1	expenditure to access some of the more sophisticated
2	report.	2	products that are available that may have different
3	Q. (BY MR. EWALT) And that conversation with	3	substantive degrees of of pricing for to
4	Professor Chandler took place on June 4, 2024?	4	advertisers for the use of those products.
5	A. Yes.	5	Q. Was was any record made of the
6	Q. That was three days before your report was	6	conversation between you and Professor Chandler?
7	finalized?	7	A. In my I I had a set of questions that I
8	A. Yes.	8	wanted to ask him. And I
9	Q. How long did the conversation with Professor	9	MS. YOUNG: I'm going to instruct so
10	Chandler last?	10	just to be clear, right? And I want to follow the
11	A. I don't recall.	11	expert stip, and the expert stip forecloses the
12	Q. Was it more than an hour?	12	disclosure discovery of notes and drafts of testifying
13	A. I don't recall the exact time. Probably not	13	experts unless he relied upon them so
14	much more if it was that.	14	MR. EWALT: He did rely on them. He
15	Q. What's your best estimate of how long it	15	cited them here.
16	took?	16	MS. YOUNG: Yeah. And he said that
17	A. Maybe an hour.	17	everything he relied upon is stated in his report. So
18	Q. Who was present for the conversation?	18	I just want to caution the witness with that.
19	A. Oh, I don't remember.	19	And I'm allowing you to ask the
20	Q. Was it just you and Professor Chandler?	20	questions, but I just want to make clear that there is
21	A. I don't believe so, but I can't remember who	21	a line that the parties have agreed to draw here.
22	else was there.	22	So you're not allowed to discover the
23	Q. Were any members of your support team from	23	contents of any communications between counsel
	Keystone present?	24	(Speaking simultaneously.)
24 25	MS. YOUNG: So I'm going to instruct you	25	MS. YOUNG: Yes.

21 (Pages 78 - 81)

	HIGHLY CONFIDENTIAL				
	Page 82		Page 84		
1	MR. EWALT: Yeah.	1	advertisers would respond to a SSNIP for ad-buying		
2	MS. YOUNG: Go ahead.	2	tools for small advertisers?		
3	Q. (BY MR. EWALT) Okay. So the question is:	3	A. I may not have explicitly done so, but some		
4	Was a record made of the conversation?	4	of the factors of substitution that I considered are		
5	A. No.	5	common to both.		
6	Q. Okay. But you wrote up questions before the	6	Q. You know that large advertisers account for a		
7	conversation to ask Professor Chandler.	7	large portion of the total spending on ad-buying tools		
8	Is that fair?	8	for small advertisers, right?		
9	A. I had a a list of questions. I cannot	9	MS. YOUNG: Objection; form.		
10	recall that if I where I wrote them. It may have	10	A. They account for a reasonable proportion,		
11	been somewhere, but more likely than not it was on my	11	yes.		
12	little white board ahead of the conversation.	12	Q. (BY MR. EWALT) Reasonably large proportion?		
13	Q. You probably erased your white board since	13	MS. YOUNG: Objection; form.		
14	then?	14	A. I can't		
15	A. Yeah, I have a white board that sits right in	15	MS. YOUNG: Go ahead.		
16	front of my computer screen where I it works on	16	A. I can't remember the exact proportion.		
17	Zoom. It's a good thing. You should get it. Well,	17	Q. (BY MR. EWALT) Please turn to Page 92 of your		
18	it's I find it useful.	18	opening report.		
19	And that's where often I write stuff.	19	Does Figure 8 show a slide from a Google		
20	And then I use the stuff and whatever I	20	presentation about large and small advertisers using		
21	was going to use it, off it goes.	21	different ad-buying tools?		
22	That's my	22	A. Yes.		
23	Q. All right.	23	Q. In the top left corner of the slide, do you		
24	A process.	24	see where it says: "Google ads customers and		
25	Q. Okay. Well, let's can you please turn to	25	revenue"?		
	Page 83		Page 85		
1	Page 81 in your opening report. Page 81.	1	A. Yes.		
2	A. Yep.	2	Q. Are large advertisers sometimes called head		
3	Q. You're there. Great.	3	advertisers?		
4	Let's take a look at Paragraph 237. It	4	A. Yes.		
5	begins: "A small increase in the price of ad-buying	5			
6	tools for small advertisers for buying open web				
7	display advertising above competitive levels would not				
8	result in significant substitution by small				
9	advertisers for other products. In response to an				
10	increase in price, small advertisers would have four				
11	options."				
12	Do you see that?	12	Q. How do you know that?		
13	A. Yes.	13	A. Well, that's what that that says.		
14	Q. So when using the hypothetical monopolist	14	Q. Well, it says "Google Ads" in the top left		
15	test to define your market for ad-buying tools for	15	corner. It says: "Google Ads customers and revenue."		
16	small advertisers, were you focused on how small	16	A. Well, I I I look at the the side		
17	advertisers would respond to a SSNIP?	17	there which has Google Ads being used, but also these		
18	A. Yes.	18	other different ad products being used as well.		
19	Q. Both large advertisers and small advertisers	19	So it's it's that that's what I		
20	use the tools that you refer to as ad-buying tools for	20	interpreted that revenue as, but I see what I see		
21	small advertisers.	21	that it might have another interpretation.		
22	Is that fair?	22			
23	MS. YOUNG: Objection; form.				
		=			
24 25	A. Yes. Q. (BY MR. EWALT) Did you analyze how large				

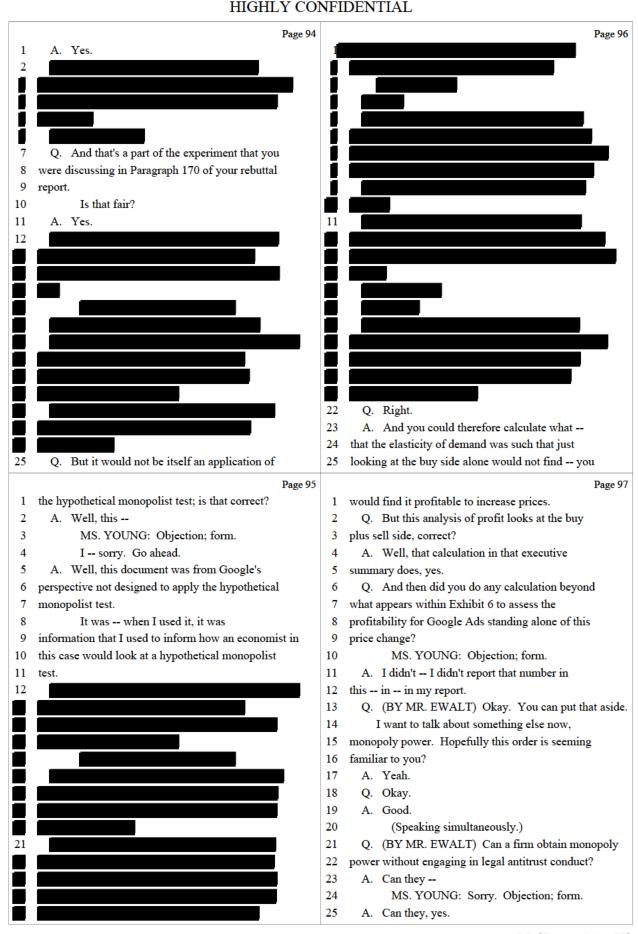
22 (Pages 82 - 85)

	HIGHLY CONFIDENTIAL				
	Page 86		Page 88		
1		1	A. I didn't engage in that analysis, but I		
		2	believe that other experts have.		
1		3	MS. YOUNG: Counsel, we've been going		
4	Q. (BY MR. EWALT) And do large advertisers use	4	for over an hour. When you reach a good stopping		
5	both Google Ads and DV360?	5	point on this line of questioning, I suggest a break.		
6	A. Yes.	6	MR. EWALT: Okay.		
7	MS. YOUNG: Objection; form.	7	Q. (BY MR. EWALT) Did you examine the prices		
8	Sorry. Just speak over you. Go ahead.	8	charged by any non-Google ad-buying tools for small		
9	A. Yes.	9	advertisers?		
		-	A. I examined I didn't examine the I can't		
10	Q. (BY MR. EWALT) If a firm providing ad-buying	10			
11	tools for small advertisers were thinking about	11	recall if I examined the prices for those.		
12	raising prices, would it have to consider potential	12	MR. EWALT: Okay. We can go off the		
13	responses from both small advertisers and large	13	record.		
14	advertisers?	14	THE VIDEOGRAPHER: This is now the end		
15	MS. YOUNG: Objection; form.	15	of Video 2 of Joshua Gans. We're off the record at		
16	<ol> <li>It would it would have to consider them,</li> </ol>	16	11:23.		
17	yes.	17	(Break from 11:23 a.m. to 11:38 a.m.)		
18	Q. (BY MR. EWALT) Responses from large	18	THE VIDEOGRAPHER: Now back on the		
19	advertisers would have a big impact on the provider of	19	record. Video 3 of Joshua Gans. The time is		
20	ad-buying tools for small advertisers because large	20	approximately 11:38.		
21	advertisers represent a big part of the total spending	21	Q. (BY MR. EWALT) Welcome back, Professor Gans.		
22	on ad-buying tools for small advertisers.	22	During the break, did you discuss the		
23	Do you agree with that?	23	substance of this case with counsel?		
24	MS. YOUNG: Objection; form.	24	MS. YOUNG: Again, I'm going to object		
25	A. I think this is what this says, that large	25	to this line of questioning as to going into the		
	Page 87		Page 89		
1	Page 87 advertisers place a lot of value on the advertisers	1	Page 89 contents of communications with counsel.		
1 2	advertisers place a lot of value on the advertisers	1 2	contents of communications with counsel.		
2	advertisers place a lot of value on the advertisers that solely go through Google Ads.	2	contents of communications with counsel.  You can ask him if he had discussions		
2 3	advertisers place a lot of value on the advertisers that solely go through Google Ads.  Q. (BY MR. EWALT) Right. But I'm not asking	2	contents of communications with counsel.  You can ask him if he had discussions with counsel but not about the contents. So I'm going		
2 3 4	advertisers place a lot of value on the advertisers that solely go through Google Ads.  Q. (BY MR. EWALT) Right. But I'm not asking about this slide right now.	2 3 4	contents of communications with counsel.  You can ask him if he had discussions with counsel but not about the contents. So I'm going to instruct the witness not to answer the question.		
2 3 4 5	advertisers place a lot of value on the advertisers that solely go through Google Ads.  Q. (BY MR. EWALT) Right. But I'm not asking about this slide right now.  A. Oh, I'm sorry.	2 3 4 5	contents of communications with counsel.  You can ask him if he had discussions with counsel but not about the contents. So I'm going to instruct the witness not to answer the question.  MR. EWALT: Okay. Based on that		
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23 (Pages 86 - 89)

	Page 90			
1	Page 90 other than Google charge, for small advertiser	1	Page 92	
2	ad-buying tools?	2	Q. (BY MR. EWALT) Do you have any reason to	
3	A. I cannot recall if I saw or thought about any	3	doubt the accuracy of Figure 5?	
4	particular price that was charged by the competitors,	4	MS. YOUNG: Objection; form.	
5	the other providers in the ad-buying tools for small	5	A. I cannot recall investigating it closely. So	
6	advertiser market.	6	I wouldn't want to warrant its accuracy or otherwise	
7	(Marked Gans Exhibit No. 5.)	7	at this stage.	
8	Q. (BY MR. EWALT) I'm handing you what's been	8	Q. (BY MR. EWALT) But you don't have any reason	
9	marked as Exhibit 5, which is Professor Baye's report.	9	to think it's inaccurate, do you?	
10	A. All right.	10	MS. YOUNG: Objection; form.	
11	Q. And ask you to turn to Page 603, Page 603.	11	A. I I haven't investigated its its	
12	(Discussion off the record.)	12	accuracy.	
13	Q. (BY MR. EWALT) It's towards the end. Not	13		
14	quite all the way to the end.			
15	A. Yes. Just a second here.			
16	Right.			
17	Q. (BY MR. EWALT) You there?	17	Q. Is it fair to say that you don't know what a	
18	A. Yes.	18	competitive price would be for ad-buying tools for	
19	Q. All right. And Figure 5 on Page 604 of	19	small advertisers?	
20	Professor Baye's report shows the price of several	20	MS. YOUNG: Objection; form.	
21	advertising buying tools over time.	21	A. I did not conduct an analysis of the what	
22	Do you agree with that?	22	the competitive benchmark price would be.	
23	A. Just a sec. Let me refresh my memory on this	23	Q. (BY MR. EWALT) Without knowing the	
24	chart.	24	competitive benchmark, can an economist perform a	
25	MS. YOUNG: Did you say Page 604?	25	hypothetical monopolist test?	
	Page 91		Page 93	
1	MR. EWALT: 603.	1	MS. YOUNG: Objection; form.	
2	MS. YOUNG: 603.	_	A 37 d	
		2	A. Yes, they can.	
3	Objection; form.	3	A. Yes, they can.  Q. (BY MR. EWALT) All right. Would you please	
3	A. Okay. Do you want to ask your question			
		3	Q. (BY MR. EWALT) All right. Would you please	
4	A. Okay. Do you want to ask your question	3 4	Q. (BY MR. EWALT) All right. Would you please turn to paragraph you can put away put aside Professor Baye's report.  And I'll ask you to please turn to	
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4 5 6 7 8	<ul> <li>A. Okay. Do you want to ask your question again?</li> <li>Q. (BY MR. EWALT) Yes, I do. Do you agree that Figure 5, on Page 603 of Professor Baye's report, shows the prices of several</li> </ul>	3 4 5 6 7 8	Q. (BY MR. EWALT) All right. Would you please turn to paragraph you can put away put aside Professor Baye's report.  And I'll ask you to please turn to Paragraph 170 of your rebuttal report.  A. Yes.	
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24 (Pages 90 - 93)



25 (Pages 94 - 97)

1	Page 98		Dogg 100
1	Q. (BY MR. EWALT) A firm obtain monopoly power	1	Page 100 Q. In your opinion, does Google have monopoly
2	by offering high quality products that its competitors	2	power in the market for ad exchanges?
3	can't match?	3	MS. YOUNG: Objection; form.
4	MS. YOUNG: Objection; form.	4	A. In my opinion, it does have monopoly power in
5	A. It is possible that firms can do that.	5	the market for ad exchanges for open web display
6	Q. (BY MR. EWALT) Can a firm obtain monopoly	6	advertising.
7	power by holding unique proprietary technology?	7	Q. (BY MR. EWALT) When did Google obtain
8	MS. YOUNG: Objection; form.	8	monopoly power in the market for ad exchanges that
9	A. It it can do that, yes.	9	transact open web display advertising?
10	Q. (BY MR. EWALT) Does DFP have unique product	10	A. I did not engage in a analysis of the of
11	features as compared to other publisher ad servers?	11	the timing of that. I was interested in the state of
12	MS. YOUNG: Objection; form.	12	the market part and then after the conduct that was
13	A. It it may have it may have some	13	investigated.
14	distinctive product differentiation with other	14	Q. During which periods of time has Google had
15	publishers' ad servers.	15	monopoly power in the market for ad exchanges
16	Q. (BY MR. EWALT) Do those unique features for	16	transacting open web display advertising?
17	DFP make it a relatively high quality publisher ad	17	A. It has had that it has that degree of
18	server?	18	market power monopoly power most certainly.
19	MS. YOUNG: Objection; form.	19	As I said, I didn't examine at times
20	A. I I do not know if that's the case.	20	other than were relevant for this case, but certainly
21	Q. (BY MR. EWALT) Does AdX have unique product		has it sorry certainly has it over the last
22	features as compared to other ad exchanges?	22	significant period of time.
23	MS. YOUNG: Objection; form.	23	I haven't got any dates that I pinned
24	A. I I am not aware of any specific features	24	down for this thing.
25	that are necessarily unique to Google.	25	Q. So you don't you haven't pinned down any
	Page 99		Page 101
1	Q. (BY MR. EWALT) Does Google Ads have unique	1	dates for when Google had monopoly power in the market
2	product features as compared to other ad-buying tools	2	for ad exchanges transacting open web display
3	for small advertisers?	3	advertising?
4			-
	A. Yes.	4	MS. YOUNG: Objection; form.
5	MS. YOUNG: Objection; form.	4 5	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in
5 6	MS. YOUNG: Objection; form. Go ahead.	4 5 6	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible
5 6 7	MS. YOUNG: Objection; form. Go ahead. A. Yes.	4 5 6 7	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.
5 6 7 8	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make	4 5 6 7 8	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google
5 6 7 8 9	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool	4 5 6 7 8 9	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad
5 6 7 8 9 10	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers?	4 5 6 7 8 9 10	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?
5 6 7 8 9 10 11	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form.	4 5 6 7 8 9 10 11	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.
5 6 7 8 9 10 11 12	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other	4 5 6 7 8 9 10 11 12	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the
5 6 7 8 9 10 11 12 13	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are	4 5 6 7 8 9 10 11 12 13	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?
5 6 7 8 9 10 11 12 13 14	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive	4 5 6 7 8 9 10 11 12 13 14	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do
5 6 7 8 9 10 11 12 13 14 15	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others.	4 5 6 7 8 9 10 11 12 13 14 15	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.
5 6 7 8 9 10 11 12 13 14 15 16	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you	4 5 6 7 8 9 10 11 12 13 14 15 16	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.
5 6 7 8 9 10 11 12 13 14 15 16 17	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power	4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that
5 6 7 8 9 10 11 12 13 14 15 16 17	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power in the market for ad-buying tools for large	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that power. But it certainly achieved that power by 2022
5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power in the market for ad-buying tools for large advertisers?	4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that power. But it certainly achieved that power by 2022 and then at the time of writing my report.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. YOUNG: Objection; form. Go ahead. A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form. A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power in the market for ad-buying tools for large advertisers? A. I have not.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that power. But it certainly achieved that power by 2022 and then at the time of writing my report.  Q. (BY MR. EWALT) How did Google obtain monopoly
5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form. Go ahead.  A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form.  A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power in the market for ad-buying tools for large advertisers?  A. I have not. Q. In your reports, have you expressed the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that power. But it certainly achieved that power by 2022 and then at the time of writing my report.  Q. (BY MR. EWALT) How did Google obtain monopoly power in the market for publisher ad servers?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. YOUNG: Objection; form. Go ahead.  A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form.  A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power in the market for ad-buying tools for large advertisers?  A. I have not. Q. In your reports, have you expressed the opinion that Google has a dangerous probability of	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that power. But it certainly achieved that power by 2022 and then at the time of writing my report.  Q. (BY MR. EWALT) How did Google obtain monopoly power in the market for publisher ad servers?  A. I didn't analyze all of the sources of how it
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. YOUNG: Objection; form. Go ahead.  A. Yes. Q. (BY MR. EWALT) Do these unique features make Google Ads a relatively high quality ad-buying tool for small advertisers? MS. YOUNG: Objection; form.  A. Those features mean that compared to other ad-buying tools for small advertisers there are distinctive features whereby advertisers can derive value from Google relative to those others. Q. (BY MR. EWALT) In your reports, have you expressed the opinion that Google has monopoly power in the market for ad-buying tools for large advertisers?  A. I have not. Q. In your reports, have you expressed the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. YOUNG: Objection; form.  A. The actual pending the date, which was in some sort of transition even if that were a possible thing, was not something I analyzed.  Q. (BY MR. EWALT) In your opinion, does Google have monopoly power in the market for publisher ad servers?  A. Yes.  Q. When did Google obtain monopoly power in the market for publisher ad servers?  A. I do  MS. YOUNG: Objection; form.  Sorry. Go ahead.  A. I do not know exactly when it did obtain that power. But it certainly achieved that power by 2022 and then at the time of writing my report.  Q. (BY MR. EWALT) How did Google obtain monopoly power in the market for publisher ad servers?

26 (Pages 98 - 101)

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27 (Pages 102 - 105)

Page 106  1 which we normally assemble evidence for a for an 2 antitrust action, that would interact with the 3 definition of the market itself. 4 So it's a little bit tricky. 5 Q. (BY MR. EWALT) Okay. Well, let me ask you as 6 an economist. 7 As an economist, is it possible for a firm 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form.  1 controls a product or platfor 2 can possess significant mark 2 can possess significant mark 3 Do you see that? 4 A. Yes. 5 Q. If network effects are does that mean that every firm 7 monopoly power? 8 MS. YOUNG: Objection; form. 9 A. No.	ket power."
2 antitrust action, that would interact with the 3 definition of the market itself. 4 So it's a little bit tricky. 5 Q. (BY MR. EWALT) Okay. Well, let me ask you as 6 an economist. 7 As an economist, is it possible for a firm 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form. 2 can possess significant mark 3 Do you see that? 4 A. Yes. 5 Q. If network effects are 6 does that mean that every firm 7 monopoly power? 8 MS. YOUNG: Objection; form. 9 A. No.	ket power."
3 Do you see that? 4 So it's a little bit tricky. 5 Q. (BY MR. EWALT) Okay. Well, let me ask you as 6 an economist. 7 As an economist, is it possible for a firm 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form. 9 A. No.	
4 So it's a little bit tricky. 5 Q. (BY MR. EWALT) Okay. Well, let me ask you as 6 an economist. 6 does that mean that every fir 7 As an economist, is it possible for a firm 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form. 9 A. No.	
5 Q. (BY MR. EWALT) Okay. Well, let me ask you as 6 an economist. 7 As an economist, is it possible for a firm 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form. 5 Q. If network effects are 6 does that mean that every fi 7 monopoly power? 8 MS. YOUNG: Objection; orm. 9 A. No.	
6 an economist. 6 does that mean that every fi 7 As an economist, is it possible for a firm 7 monopoly power? 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form. 9 A. No.	
7 As an economist, is it possible for a firm 8 with a high market share not to have monopoly power? 9 MS. YOUNG: Objection; form. 7 monopoly power? 8 MS. YOUNG: Objection; or A. No.	
8 with a high market share not to have monopoly power? 8 MS. YOUNG: Objection; form. 9 A. No.	irm in that market has
9 MS. YOUNG: Objection; form. 9 A. No.	
	jection; form.
	If network effects are present
11 A. Yes, it's possible. 11 in a market, does that mean	
12 Q. (BY MR. EWALT) Can a firm with low market 12 the market has monopoly po	
13 share have monopoly power? 13 MS. YOUNG: Ob	ojection; form.
14 A. Yes, it is possible. 14 A. No.	
	If network effects are present
16 A. Again, it depends on the market context. 16 in a market, how can you id	·
But, remember, the definition of 17 market have monopoly pow	
18 monopoly power is, for instance, to be able to 18 A. I would examine the	
19 increase price without losing above competitive 19 the technical characteristics	
20 levels without losing a a significant number of 20 to make that determination.	
21 customers. 21 Q. Are there network ef	fects in the market for
Firms with small market shares in 22 publisher ad servers?	
23 something that would be a market from the point of 23 MS. YOUNG: Ob	
24 view of an economic analysis can have that ability. 24 A. Do you mean in the s	
25 Q. So is it your view that any firm that can 25 publishers use a particular a	ad server the other
Page 107	Page 109
1 increase prices above competitive levels without 1 publishers using that same a	ad server get a higher
2 losing a significant number of customers has monopoly 2 value?	
3 power? 3 Q. (BY MR. EWALT)	Yeah. Good good point.
4 MS. YOUNG: Objection; form. 4 Let me ask about indirect no	etwork effects.
5 A. That is one way of describing monopoly power, 5 A. Okay.	
6 yes. 6 Q. Are there indirect ne	etwork effects in the
7 Q. (BY MR. EWALT) Would you please turn to 7 market for publisher ad serv	vers?
8 Paragraph 303 of your opening report. 8 MS. YOUNG: Ob	ojection; form.
	r reason why there would
10 Q. Okay. And the third sentence of that 10 be indirect network effects	in the market for
11 paragraph reads: "Evidence of switching costs can be 11 publisher ad servers.	
	Are there indirect network
13 a given market." 13 effects in the market for ad-	-buying tools for small
Do you see that? 14 advertisers?	
15 A. I see that sentence. 15 MS. YOUNG: Ob	ojection; form.
	w, in principle reason why
17 monopoly power if there are high switching costs? 17 there would be indirect network.	work effects in the market
18 MS. YOUNG: Objection; form. 18 for provision of ad-buying to	tools for small
19 A. According to the definition of monopoly power 19 advertisers.	
20 I just gave you, yes. 20 Q. (BY MR. EWALT)	All right. Could you turn to
21 Q. (BY MR. EWALT) Okay. Would you please turn 21 the next page of your openi	ing expert report.
22 to Paragraph 304 of your opening report later on that 22 And I'll direct your at	tention to
23 page. 23 Paragraph 305, which begin	ns: "Barriers to entry can
24 A. Yes. 24 reflect the existence of mark	ket power."
25 Q. And that paragraph begins: "A firm that 25 Do you see that?	

28 (Pages 106 - 109)

	INOILI CON IDENTAL			
١.	Page 110	١,	Page 112	
1	A. Yes.	1	MS. YOUNG: Objection; form.	
2	Q. If barriers to entering a market are high,	2		
3	does that mean that every firm in that market has			
4	monopoly power?			
5	MS. YOUNG: Objection; form.	5	Q. (BY MR. EWALT) Okay.	
6	A. Not necessarily.	6	(Marked Gans Exhibit No. 7.)	
7	Q. (BY MR. EWALT) If barriers to entry in a	7	Q. (BY MR. EWALT) Okay. I'm handing you a	
8	market are high, does that mean that at least one firm	8	document that's been marked as Exhibit 7. This	
9	in that market has monopoly power?	9	document has a slip sheet that says "Produced in	
10	A. Not necessarily.	10	Native" with Bates No. GOOG-NE-01663183.	
11	Q. If barriers to entering a market are high,	11	And I will represent to you that the document	
12	how can you identify which firms, if any, in that	12	or the pages following the first page of the document	
13	market have monopoly power?	13	are the printout of the native file that was produced	
14	A. I would combine that analysis with other	14	with that Bates number.	
15	factors that are present in the market.	15	A. Okay.	
16	Q. What other factors would you consider?	16	Q. I want to ask you before we dive into that	
17	A. Do if well, if there's only if the	17	document, ask you to please take a look at	
18	barriers of entry are high and there's only one firm	18	Footnote 381 in your opening report.	
19	in the market, that there are no other factors	19	A. Okay.	
20	required for that.	20	Q. It's a long footnote.	
21	If there is an entry of high and there's	21	A. All right.	
22	more than one firm in the market, one would have to	22	Q. About halfway down in that footnote, about	
23	look at the nature of the competition between those	23	halfway through the line, there is a sentence that	
24	firms to establish whether one or more had market	24	starts: "For 2010 to 2011 shares see"	
25	power.	25	And then a Bates number.	
	•			
1	Page 111	1	Page 113 A. Yes.	
1	Q. Would you please turn to Page 117 of your	_		
2	opening report.	2	Q. Okay. Is exhibit	
3	MS. YOUNG: Page or paragraph?	3	MS. YOUNG: Wait. Were you going to	
4	MR. EWALT: Page.	4	give him time to read the whole footnote? I think	
5	A. Yes.	5	that was your	
6	Q. (BY MR. EWALT) Does Figure 9 summarize your		MR. EWALT: I don't think	
7	analysis of DFP's share in the market for publisher ad	7	MS. YOUNG: prior instruction, yeah.	
8	servers?	8	MR. EWALT: No, I don't think he needs	
9	A. Yes, I believe it does.	9	to read it.	
10	Q. And you report data for nine different years	10	Q. (BY MR. EWALT) If you feel like you do have	
11	between 2006 and 2019.	11	to let me ask the question. If you feel like you	
12	Is that fair?	12	need to read the whole footnote, then that's fine.	
13	A. Correct.	13	A. Okay.	
14	Q. And there are six different colors for the	14	Q. But is Exhibit 7 the document that you relied	
15	nine bars in Figure 9, right?	15	upon for the 2010 and 2011 shares reported in Figure 9	
16	A. Yes.	16	of your opening report?	
17	Q. Each color represents a different way of	17	MS. YOUNG: And you read the footnote if	
18	measuring shares.	18	you feel like you need it to answer the question	
19	Is that fair?	19	accurately.	
20	MS. YOUNG: Objection; form.	20	A. I believe it is.	

29 (Pages 110 - 113)

Q. (BY MR. EWALT) Could you please turn to

Q. And Page 34 is one of the pages that you cite

21

23

24

22 Page No. 34 in Exhibit 7.

25 for the market shares in Figure 9, right?

A. Yes.

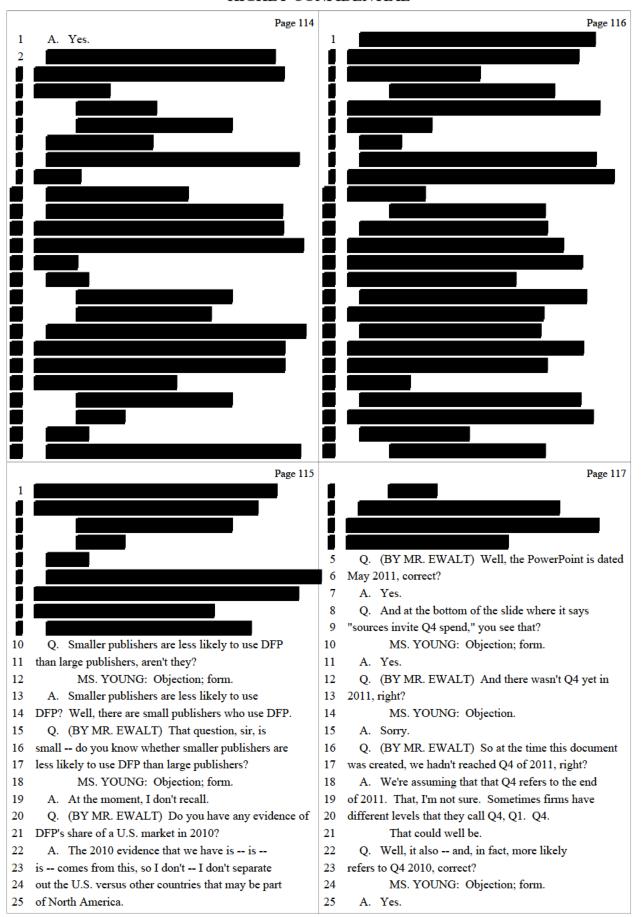
Go ahead.

A. Yes.

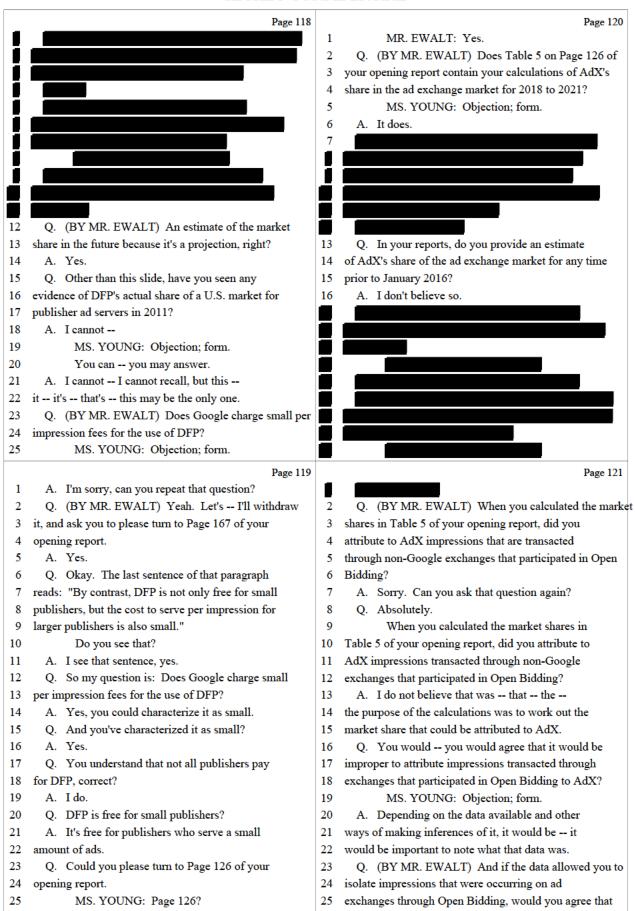
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30 (Pages 114 - 117)



31 (Pages 118 - 121)

		. 11 1	
	Page 122		Page 124
1	it would be improper to attribute those impressions to	1	Q. (BY MR. EWALT) And you understand that EBDA
2	AdX	2	was an early name for Open Bidding?
3	MS. YOUNG: Objection.	3	MS. YOUNG: Objection; form.
4	Q. (BY MR. EWALT) for purposes of calculating	4	A. That could be the case.
5	AdX's market share of an ad exchange market?	5	Q. (BY MR. EWALT) Should impressions transacted
6	MS. YOUNG: Objection; form.	6	through EBDA be counted in AdX's market share?
7	A. You would have to, whether there was any	7	MS. YOUNG: Objection; form.
8	ambiguity, note what you how how you're arriving	8	A. There's a discussion of this in my rebuttal
9	at the calculation.	9	report, I believe.
10	Q. (BY MR. EWALT) If the data allowed you to	10	Q. (BY MR. EWALT) Well, that's fine. And we'll
11	isolate impressions that were occurring on ad	11	have a chance to look at that in a moment.
12	exchanges through Open Bidding without any ambiguity,	12	But I'm just asking you without reviewing your
13	would you agree that it would be improper to attribute	13	report
14	those impressions to AdX?	14	A. I can't recall.
15	A. That	15	Q should impressions transacted through EBDA
16	MS. YOUNG: Objection; form.	16	be counted in AdX's market share?
17	Sorry. Go ahead.	17	A. I can't recall whether they should because
18	A. Yes, that would not sound like the usual	18	I there was some nuance in what EBDA was.
19	course of analysis.	19	Q. All right. Would you turn to Paragraph 605
20	Q. (BY MR. EWALT) When you calculated the market		of your opening report, please.
21	shares in Table 5, did you attribute to AdX	21	A. Yes.
22	impressions where the transaction type field took on a	22	Q. Okay. And the first sentence of that
23	value of EBDA?	23	paragraph reads: "By early 2018, Google responded to
24	MS. YOUNG: Objection; form.	24	the competitive threat of Header Bidding circumventing
25	A. I cannot recall, but we can look at	25	GAM with its own version of Header Bidding implemented
	Page 123		Page 125
1	discussions of where I did.	1	inside the ad server called Exchange Bidding in
2	Q. (BY MR. EWALT) Sure. So let's look at	2	Dynamic Allocation, EBDA."
3	Footnote 428 to Table 5.	3	Do you see that?
4	A. Yes.	4	A. Yes.
5	Q. And about five lines or six lines down in	5	Q. And you understand that EBDA evolved into
6	Footnote 428, there's a sentence that reads: "The	6	Open Bidding, right?
7	column transaction type is allowed to take values AdX	7	A. Yes.
8	no fill OA or EBDA."	8	Q. So should impressions transacted through EBDA
9	Do you see that?	9	or Open Bidding exchanges be counted in AdX's market
10	A. Yes.	10	share?
11	Q. When you calculated the market shares in	11	MS. YOUNG: Objection; form.
12	Table 5, did you attribute to AdX impressions	12	A. It would depend on whether those impressions
13	sorry. Strike that.	13	were transacted through AdX.
14	When you calculated the market shares in	14	Q. (BY MR. EWALT) By definition, aren't the
15	Table 5, did you attribute to AdX those impressions	15	transactions occurring through EBDA and Open Bidding
16	where transaction the transaction type field took	16	not taking place on AdX?
17	on a value of EBDA?	17	MS. YOUNG: Objection; form.
18	MS. YOUNG: Objection; form.	18	A. I don't know if that's the case by
19	A. Yes.	19	definition.
111	Q. (BY MR. EWALT) Do you understand that EBDA	20	Q. (BY MR. EWALT) So you don't know one way or
20	stands for Evchange Ridding in Dynamic Allocation?	21	the other whether EBDA transactions are occurring on
21	stands for Exchange Bidding in Dynamic Allocation?		4 1770
21 22	A. I believe that	22	AdX?
21 22 23	A. I believe that MS. YOUNG: Objection; form.	23	MS. YOUNG: Objection; form.
21 22	A. I believe that		

32 (Pages 122 - 125)

Page 126  1 moment but there was some discussion that due to 2 Professor Baye's opinions that I elaborated on in my 3 rebuttal report on this issue. 4 Q. (BY MR. EWALT) Sure. So why don't we why 5 don't we take a look at Page 192 of your rebuttal 6 report. 7 A. Page 192? 8 Q. Yes. 9 A. Yes. 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 18 A. Are they a mistake? 1 A. Yes. 2 Q. My question is about if you 3 understanding is mistaken and if the 4 labeled EBDA did not actually occur 5 market shares that you reported in Tage opening report be overstated? 7 MS. YOUNG: Objection; form. 1 A. Yes. 2 Q. My question is about if you 3 understanding is mistaken and if the 4 labeled EBDA did not actually occur 5 market shares that you reported in Tage opening report be overstated? 7 MS. YOUNG: Objection; form. 1 A. Yes. 2 Q. My question is about if you 3 understanding is mistaken and if the 4 labeled EBDA did not actually occur 5 market shares that you reported in Tage opening report be overstated? 7 MS. YOUNG: Objection; form. 10 the numerator that were from the der 11 not AdX would overstate it. 12 Q. (BY MR. EWALT) So I think 13 question is yes, but I want to just mate opening reported in Figure 5 of your opening report mistaken? 14 Yes or no? 15 A. Well, I I for the purposes an accurate answer to what is, in my hypothetical, I'm answering it the want opening report be overstated? 1 A. Yes. 2 Q. My question is about if you 3 understanding is mistaken and if the labeled EBDA did not actually occur 5 market shares that you reported in Tage opening report be overstated? 10 the numerator that were from the der 11 not AdX would overstate it. 12 Q. (BY MR. EWALT) So I think 13 an accurate answer to what is, in my hypothetical, I'm answering it the want opening repo	transactions in AdX, would the able 5 of your orm. Int that they uded things in cominator that were
2 Professor Baye's opinions that I elaborated on in my 3 rebuttal report on this issue. 4 Q. (BY MR. EWALT) Sure. So why don't we why 5 don't we take a look at Page 192 of your rebuttal 6 report. 7 A. Page 192? 8 Q. Yes. 9 A. Yes. 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 2 Q. My question is about if you 3 understanding is mistaken and if the 4 labeled EBDA did not actually occur 5 market shares that you reported in Tage 6 opening report be overstated? 7 MS. YOUNG: Objection; form. 8 A. The market shares, to the exte 9 included in the the calculation incl 10 the numerator that were from the der 11 not AdX would overstate it. 12 Q. (BY MR. EWALT) So I think 13 Q. (BY MR. EWALT) So I think 14 Yes. 15 A. Well, I I for the purposes 16 an accurate answer to what is, in my 17 hypothetical, I'm answering it the way 18 A. Well, I I for the purposes 19 A. Well, I I for the purposes 10 A. Well, I I for the purposes 11 hypothetical, I'm answering it the way 12 hypothetical, I'm answering it the way 13 understanding is mistaken and if the 14 labeled EBDA did not actually occur 15 market shares that you reported in Tage 10 opening report be overstated? 12 market shares that you reported in Tage 14 page 17 market shares that you reported in Tage 15 A. Well, I I for the purposes 16 an accurate answer to what is, in my 17 hypothetical, I'm answering it the way	transactions in AdX, would the able 5 of your orm. Int that they uded things in cominator that were
rebuttal report on this issue.  Q. (BY MR. EWALT) Sure. So why don't we why don't we take a look at Page 192 of your rebuttal report.  A. Page 192?  A. Page 192?  A. Yes.  Q. Okay. So you you seem like you wanted to review this to refresh your memory. So please take a moment to do that.  A. Okay. Thank you.  A. Okay. Are the market shares that you report mistaken?  Q. Okay. Are the market shares that you report mistaken?  MS. YOUNG: Objection; form.  3 understanding is mistaken and if the 4 labeled EBDA did not actually occur market shares that you reported in Ta opening report be overstated?  7 MS. YOUNG: Objection; f  8 A. The market shares, to the exterported in the the calculation included in the the calculation included in the the calculation included in the mumerator that were from the derivation of the numerator that were from the derivation in the numerator that were from the deriva	transactions in AdX, would the able 5 of your orm. Int that they uded things in cominator that were
4 Q. (BY MR. EWALT) Sure. So why don't we why 5 don't we take a look at Page 192 of your rebuttal 6 report. 7 A. Page 192? 8 Q. Yes. 9 A. Yes. 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 11 not AdX would overstate it. 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 4 labeled EBDA did not actually occur market shares that you reported in Ta opening report be overstated? 5 market shares that you reported in Ta opening report be overstated? 7 MS. YOUNG: Objection; form. 10 don't we take a look at Page 192 of your rebuttal 5 market shares that you reported in Ta opening report be overstated? 7 MS. YOUNG: Objection; form. 10 don't we take a look at Page 192 of your rebuttal 5 market shares that you reported in Ta opening report be overstated? 7 MS. YOUNG: Objection; form. 10 the numerator that were from the der not AdX would overstate it. 11 Q. (BY MR. EWALT) So I think question is yes, but I want to just market shares that you an accurate answer to what is, in my hypothetical, I'm answering it the way hypothetical in Ta opening report be overstated?  10 opening report be overstated? 11 market shares that you reported in Ta opening report be overstated? 12 MS. YOUNG: Objection; form.	orm.  In that they uded things in cominator that were at the answer to my
5 don't we take a look at Page 192 of your rebuttal 6 report. 6 opening report be overstated? 7 A. Page 192? 8 Q. Yes. 9 A. Yes. 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 18 market shares that you reported in Tage opening report be overstated? 19 MS. YOUNG: Objection; form. 10 do opening report be overstated? 10 the market shares, to the externation included in the the calculation included in the reported in the numerator that were from the derugent of the numerator that were from the	orm.  Int that they uded things in cominator that were
6 report. 7 A. Page 192? 8 Q. Yes. 9 A. Yes. 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 17 Q. Okay. Are the market shares that you 18 A. Well, I I for the purposes 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form.	orm.  Int that they  uded things in  cominator that were
7 A. Page 192? 8 Q. Yes. 9 A. Yes. 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; f  7 MS. YOUNG: Objection; f  8 A. The market shares, to the extered included in the the calculation included in the the calculation included in the reported in the numerator that were from the derender included in the the calculation included in the the calculation included in the the calculation included in the reported in the numerator that were from the derender included in the the calculation included in the the calculation included in the the calculation included in the reported in the report	nt that they uded things in cominator that were to the answer to my
8 A. The market shares, to the external problem of the numerator that were from the derivation in the numerator that we	nt that they uded things in cominator that were to the answer to my
9 A. Yes. 9 included in the the calculation incl 10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 9 included in the the calculation incl 10 the numerator that were from the der 11 not AdX would overstate it. 12 Q. (BY MR. EWALT) So I thinl 13 question is yes, but I want to just manuely and the proposes of the purposes of the purpose of the purposes of the purpose of the	uded things in cominator that were a the answer to my
10 Q. Okay. So you you seem like you wanted to 11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 18 the numerator that were from the der not AdX would overstate it. 19 Q. (BY MR. EWALT) So I think question is yes, but I want to just mathematically a proposed in Yes or no? 10 the numerator that were from the der not AdX would overstate it. 11 AdX would overstate it. 12 Q. (BY MR. EWALT) So I think question is yes, but I want to just mathematically a proposed in Yes or no? 15 A. Well, I I for the purposes an accurate answer to what is, in my hypothetical, I'm answering it the way.	tominator that were
11 review this to refresh your memory. So please take a 12 moment to do that. 13 A. Okay. Thank you. 14 Yes. 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 18 not AdX would overstate it. 19 Q. (BY MR. EWALT) So I think question is yes, but I want to just mathematically a yes or no? 19 A. Well, I I for the purposes an accurate answer to what is, in my hypothetical, I'm answering it the way.	
12 moment to do that.  13 A. Okay. Thank you.  14 Yes.  15 Q. Okay. Are the market shares that you  16 reported in Figure 5 of your opening report mistaken?  17 MS. YOUNG: Objection; form.  18 Q. (BY MR. EWALT) So I think  19 question is yes, but I want to just material to just	
13 A. Okay. Thank you.  14 Yes.  15 Q. Okay. Are the market shares that you  16 reported in Figure 5 of your opening report mistaken?  17 MS. YOUNG: Objection; form.  18 question is yes, but I want to just mather and yes on the purposes.  19 A. Well, I I for the purposes.  10 an accurate answer to what is, in my.  11 hypothetical, I'm answering it the way.	
14 Yes or no? 15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 18 Yes or no? 19 A. Well, I I for the purposes an accurate answer to what is, in my hypothetical, I'm answering it the way.	
15 Q. Okay. Are the market shares that you 16 reported in Figure 5 of your opening report mistaken? 17 MS. YOUNG: Objection; form. 18 A. Well, I I for the purposes an accurate answer to what is, in my hypothetical, I'm answering it the way.	
reported in Figure 5 of your opening report mistaken?  16 an accurate answer to what is, in my 17 MS. YOUNG: Objection; form.  18 hypothetical, I'm answering it the wa	of providing
MS. YOUNG: Objection; form. 17 hypothetical, I'm answering it the wa	
19 Q. (BY MR. EWALT) Yeah. 19 answered the question that I asked. S	-
20 A. No. 20 it again.	
21 Q. Okay. Should impressions transacted through 21 MS. YOUNG: I'll move to	strike
22 Open Bidding exchanges be counted in AdX's market 22 everything before the question becau	se that was not a
23 share? 23 pending question.	
24 MS. YOUNG: Objection; form. 24 Q. (BY MR. EWALT) If the transfer	nsactions labeled in
25 A. Transactions that are not AdX exchanges 25 EBDA did not actually occur in AdX	, would the market
Page 127	Page 129
1 should not be counted as AdX exchanges. 1 shares that you reported in Table 5 or	ě.
2 Q. (BY MR. EWALT) And Open Bidding impressions 2 report be overstated?	
3 are not transacted on AdX exchange, correct? 3 MS. YOUNG: Objection; f	orm.
4 MS. YOUNG: Objection; form. 4 A. So long as that was a a calculation	ılation that
5 A. That's I do not know that with respect to 5 is consistent with the way those trans	actions were
6 the variable EBDA. I don't I recall looking at 6 treated in the denominator, that is po	ssible.
7 documentation to do with that during the write 7 MS. YOUNG: Counsel, we	've been for
8 writing of my reports, and that is not my 8 going over an hour and we haven't ta	ken a lunch break.
9 interpretation of that. 9 So when you reach a good stopping p	ooint I think for
10 Q. Do you know whether EBDA transactions 10 MR. EWALT: Okay. We're	e almost there.
11 170	er and
11 occurred on AdX? 11 MS. YOUNG: our report	
11 occurred on AdX?  12 A. My understanding is the ones labeled EBDA in 12 everyone's sake.	e is it?
12 A. My understanding is the ones labeled EBDA in 12 everyone's sake.	?
12 A. My understanding is the ones labeled EBDA in 12 everyone's sake. 13 that data set occurred on AdX. 13 THE WITNESS: What time	?
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 everyone's sake. 16 THE WITNESS: What time 17 Does anyone know the time	
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the 16 everyone's sake. 17 THE WITNESS: What time 18 Does anyone know the time 19 MR. EWALT: It's 12:40.	the current time
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the 16 market shares reported in Table 5 of your opening 17 report be wrong? 18 MS. YOUNG: Objection; form. 10 everyone's sake. 13 THE WITNESS: What time 14 Does anyone know the time 15 MR. EWALT: It's 12:40. 16 THE WITNESS: Okay. In 17 zone it's 12:40? I don't know what 18 MR. EWALT: That's what	the current time
A. My understanding is the ones labeled EBDA in that data set occurred on AdX.  13 that data set occurred on AdX.  14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the market shares reported in Table 5 of your opening 16 THE WITNESS: What time Does anyone know the time MR. EWALT: It's 12:40. 17 THE WITNESS: Okay. In zone it's 12:40? I don't know what	the current time
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the 16 market shares reported in Table 5 of your opening 17 report be wrong? 18 MS. YOUNG: Objection; form. 19 A. The market shares that I calculated were a 20 were from my understanding of the documentation 10 the WITNESS: What time 11 Does anyone know the time 12 everyone's sake. 13 THE WITNESS: What time 14 Does anyone know the time 15 MR. EWALT: It's 12:40. 16 THE WITNESS: Okay. In 17 zone it's 12:40? I don't know what 18 MR. EWALT: That's what 19 THE WITNESS: Okay. Co	the current time this says.
A. My understanding is the ones labeled EBDA in that data set occurred on AdX.  13 THE WITNESS: What time Does anyone know the time Does anyone know the time Does anyone know the time MR. EWALT: It's 12:40.  14 MR. EWALT: It's 12:40.  15 EBDA in that data set did not occur on AdX, would the market shares reported in Table 5 of your opening report be wrong?  16 THE WITNESS: Okay. In Zone it's 12:40? I don't know what	the current time this says. ool. et's look at your
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the 16 market shares reported in Table 5 of your opening 17 report be wrong? 18 MS. YOUNG: Objection; form. 19 A. The market shares that I calculated were a 20 were from my understanding of the documentation 21 market shares that were of transactions that were 22 served through AdX.  12 everyone's sake. 13 THE WITNESS: What time 14 Does anyone know the time 15 MR. EWALT: It's 12:40. 16 THE WITNESS: Okay. In 17 zone it's 12:40? I don't know what 18 MR. EWALT: That's what 19 THE WITNESS: Okay. Co	the current time this says. ool. et's look at your
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the 16 market shares reported in Table 5 of your opening 17 report be wrong? 18 MS. YOUNG: Objection; form. 19 A. The market shares that I calculated were a 20 were from my understanding of the documentation 21 market shares that were of transactions that were  12 everyone's sake. 13 THE WITNESS: What time 14 Does anyone know the time 15 MR. EWALT: It's 12:40. 16 THE WITNESS: Okay. In 17 zone it's 12:40? I don't know what 18 MR. EWALT: That's what 19 A. The market shares that I calculated were a 20 were from my understanding of the documentation 21 rebuttal report, Page 192, Figure 24.	the current time this says. ool. et's look at your
12 A. My understanding is the ones labeled EBDA in 13 that data set occurred on AdX. 14 Q. And if the transactions that were labeled 15 EBDA in that data set did not occur on AdX, would the 16 market shares reported in Table 5 of your opening 17 report be wrong? 18 MS. YOUNG: Objection; form. 19 A. The market shares that I calculated were a 20 were from my understanding of the documentation 21 market shares that were of transactions that were 22 served through AdX.  12 everyone's sake. 13 THE WITNESS: What time 14 Does anyone know the time 15 MR. EWALT: It's 12:40. 16 THE WITNESS: Okay. In 17 zone it's 12:40? I don't know what 18 MR. EWALT: That's what 19 THE WITNESS: Okay. Co	the current time this says. sol. et's look at your hat Professor

33 (Pages 126 - 129)

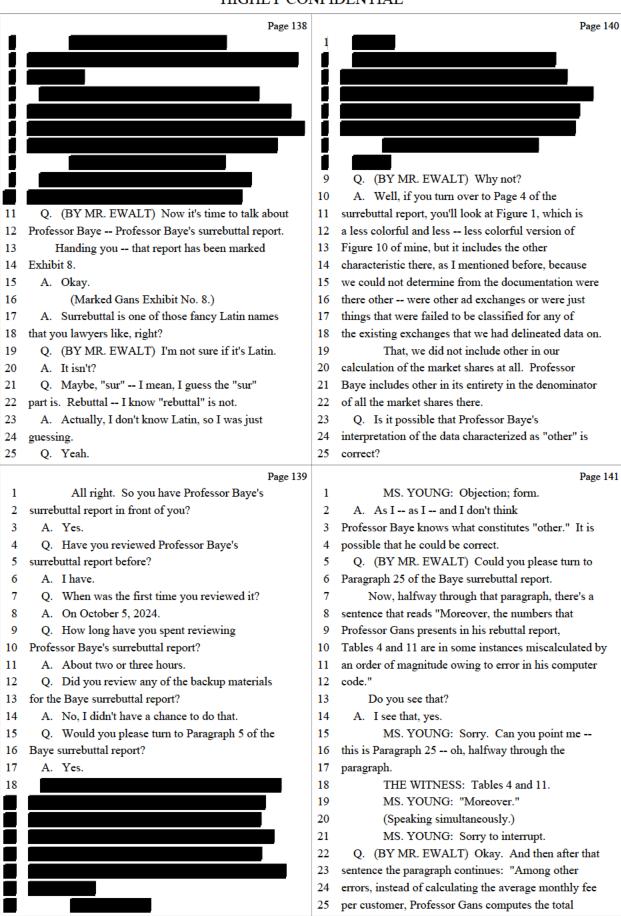
	HIGHLY CONFIDENTIAL			
	Page 130		Page 132	
1	numerator of your Table 5 the transactions that were	1	Professor Gans, would you please return to	
2	associated with EBDA; is that correct?	2	what we were talking about before the break and ask	
3	A. Yes.	3	direct your attention to Page 192 of your rebuttal	
4	MS. YOUNG: Objection; form.	4	report.	
5	Please let me object first. Go ahead.	5	A. Okay. Yes.	
6	Q. (BY MR. EWALT) And do you have any reason to	6		
7	doubt that the figures reported in Row B for AdX's			
8	market share are correctly calculated if EBDA			
9	transactions did not occur on AdX?			
10	MS. YOUNG: Objection; form.			
11	A. I I believe those calculations are			
12	accurate for that adjustment.			
13	MR. EWALT: Seems like a good time for	13	Q. Great. Let's can you keep open to that	
14	lunch.	14	page, please, but then also open your opening report	
15	Let's go off the record.	15	to Page 126.	
16	THE WITNESS: Okay.	16	MS. YOUNG: Did you say Page 126?	
17	THE VIDEOGRAPHER: This is now the end	17	MR. EWALT: Oh, yes. I'm sorry.	
18	of Video 3 of Joshua Gans. Off the record. The time	18	Page 126.	
19	is 12:41.	19	A. Sorry.	
20	(Break from 12:41 p.m. to 1:36 p.m.)	20	Q. (BY MR. EWALT) Page 126?	
21	THE VIDEOGRAPHER: We're now on the	21	A. Page 126, yes.	
22	record. Video 4 of Joshua Gans. The time is	22	Q. All right. Do the calculations underlying	
23	approximately 1:36.	23	Table 5 in your opening report account for the fact	
24	MS. YOUNG: Before Mr. Ewalt continues	24	that impressions transacted by AdX and other exchanges	
25	questioning, we're putting on the record that counsel	25	may be served outside of DFP?	
	Page 131		Page 133	
1	for the states provided counsel with Google with	1	MS. YOUNG: Objection; form.	
2	language that would be inserted in the missing	2	A. No. Well, they well, let me let me	
3	footnote of Figure 7 of Professor Gans' rebuttal	3	clarify.	
4	report.	4	It was based on transactions through	
5	Plaintiff States has told Google counsel	5	DFP, as I clearly state, although we tested we	
6	that we will follow up with an official signed errata	6	examined other data that gave us confidence there was	
7	noting that addition to Professor Gans' rebuttal	7	no significant bias in doing using that approach.	
8	report. And counsel has the opportunity to review and	8	Q. (BY MR. EWALT) Did you discuss in your	
9	ask Professor Gans any questions about that added	9	reports the other data that you examined?	
10	footnote at this deposition.	10	A. The other the the other data examined,	
11	MR. EWALT: Thank you, Ms. Young.	11	we we do sorry, let me let me try and remind	
12	Q. (BY MR. EWALT) And welcome back, Professor	12	myself that was discussed somewhere in these	
13	Gans.	13	reports.	
14	I think you know my first question,	14	Q. All right. If Table 5 had accounted for the	
15	I think I know your first answer.	15	fact that some impressions are served outside of DFP,	
16	A. Oh, right.	16	would AdX's share of the ad exchange market be lower	
17	Q. I'll ask the question. During the lunch	17	than what's reported in Table 5?	
18	break did you discuss the substance of this case with	18	A. No.	
19	counsel?	19	MS. YOUNG: Objection; form.	
20	MS. YOUNG: I'm going to instruct the	20	Go ahead.	
21	witness, per the expert stipulation in this case, not	21	A. That was our assessment that it would not be.	
22	to disclose the content of communications he, as a	22	Q. (BY MR. EWALT) All right. Please turn in	
23	testifying expert, had with counsel.	23	your rebuttal report to Page 92.	
24 25	Q. (BY MR. EWALT) So based on that instruction,	24	A. 92?	
	I'll move on to my next question.	25	Q. Yes.	

34 (Pages 130 - 133)

Page 134 Page 136 A. Yes. 1 you didn't do anything to account for the existence of 2 Q. Does Figure 10 in your rebuttal report report ad exchanges other than the eight that are market shares for AdX and other exchanges for the specifically mentioned in Figure 10? period April 2019 to May 2020? 4 MS. YOUNG: Objection; form. A. All right. Let me just examine. A. I -- I think in our production materials, we MS. YOUNG: Objection; form. say what we -- what we did, and that's what we did. 6 6 7 A. Can you ask that question again so I just Q. (BY MR. EWALT) Well, then, I'm asking you 8 because you -- I have to be honest. Sometimes your have it? 8 9 9 production materials are not as clear as a lawyer like Q. (BY MR. EWALT) Does Figure 10 in your 10 rebuttal report report market shares in the ad 10 me can understand, so I just want to ask the question exchange market and for AdX other exchanges for the 11 about whether when you put together Figure 10 you did 12 period April 2019 to May 2020? 12 anything to account for the existence of ad exchanges 13 MS. YOUNG: Same objection. 13 other than the eight that are specifically mentioned? 14 A. Yes, it does, but using Professor Baye's 14 MS. YOUNG: Objection; form. 15 15 panel. When we were using the data, we considered 16 16 what we understood -- as I said, the data was coming 17 from Professor Baye's panel, what that data was in 18 order to represent, we thought, a conservative 19 representation of the various market shares in 20 Figure 10. 21 21 Q. Did the data that you used in Figure 10 Q. (BY MR. EWALT) So do you think that the way include information about impressions transacted by that Professor Baye describes Figure 10 in his 22 23 any ad exchanges other than the eight ad exchanges 23 surrebuttal report is correct? 24 identified in Figure 10? 24 A. Let's -- can -- can I have his surrebuttal A. I can't -- I can't recall precisely. I -report again -- well, I don't think we've got it yet. 25 Page 135 Page 137 1 I -- I don't believe it included other ones. 1 Q. Yep. We'll get there in a moment. 2 A. Okay. But I am aware that he discussed this 2 Q. And were there more than eight ad exchanges operating in the United States during the period 3 issue in his surrebuttal report. 3 4 April 2019 to May 2020? 5 MS. YOUNG: Objection; form. 6 A. Yes, there may have been. 7 Q. (BY MR. EWALT) In Figure 10, did you do anything to account for the existence of the ad 9 exchanges other than the eight that are specifically 10 mentioned? 11 A. The -- I'm trying to recall from the data set, although we could, I guess, call that up, is that there was a category of unknown, and it was not clear 14 whether the unknown were other exchanges or, in fact, 15 could be the exchanges that we had clear information 16 17 Q. But when you were -- when you were preparing Figure 10, is it fair to say that you did not include 18 19 any of the information about the unknown data in 20 Figure 10? 21 MS. YOUNG: Objection; form. 22 A. Yes. We didn't include it even though there 23 was a possibility that it could increase the AdX 24 market share. 25 Q. (BY MR. EWALT) All right. So in Figure 10,

35 (Pages 134 - 137)

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36 (Pages 138 - 141)

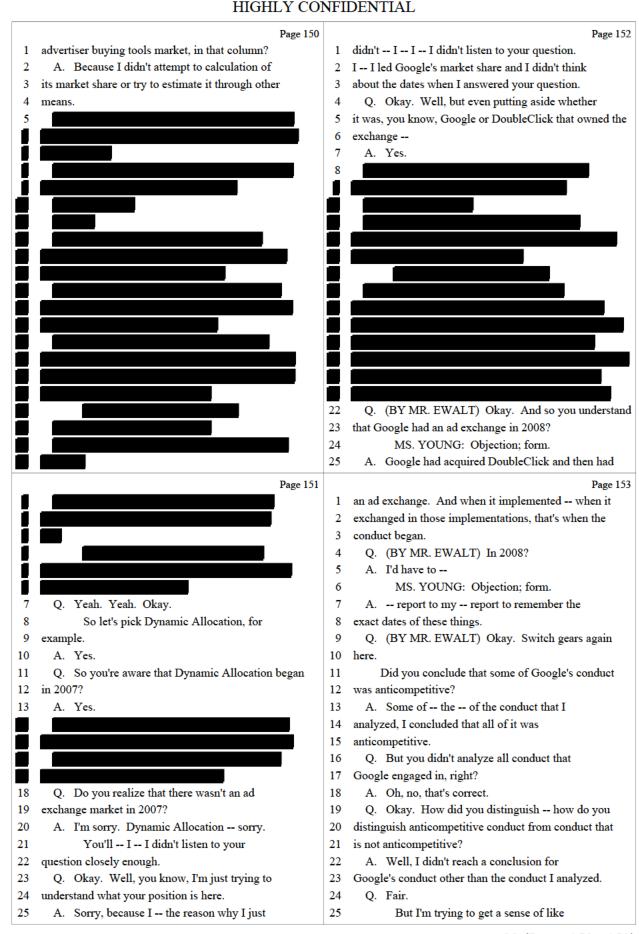
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	IIIdill'i Col		
	Page 142		Page 144
1	revenue for each fee type over a nine-year period and	1	types, when I was instructing and then reviewing the
2	divides this by the number of publishers who are	2	outputs, these were the sorts of questions we were
3	associated with the fee type of at any point in that	3	paying attention to, or I was paying attention to.
4	period."	4	Q. Do you ever make a mistake?
5	Do you see that?	5	MS. YOUNG: Objection; form.
6	A. Yes.	6	A. In my life?
7	Q. Do you agree that description of your	7	Q. (BY MR. EWALT) Yeah.
8	computer code?	8	A. I've I've made errors in my life.
9	MS. YOUNG: Objection; form.	9	Q. Okay. Would you you can put that aside.
10	A. I need to remind myself. I'm trying to just	10	Can you please turn to Page 135 of your
11	remind myself of he's calling errors what that he's	11	opening report.
12	calling errors in the computer I'm trying to remind	12	Does the final row of Table 7 on
13	myself since we switched ad servers, right?	13	Page 135 of your opening report does that row
14	Q. (BY MR. EWALT) So you let me direct you to	14	report your estimate of Google Ads' share of the
15	your rebuttal report, Page 47.	15	market for ad-buying tools for small advertisers from
16	A. Okay.	16	2018 to 2021?
17	Q. It has Table 11.	17	MS. YOUNG: Objection; form.
18	A. Yes.	18	A. Yes.
19	Q. And Page 213 has I'm sorry Page 47 has	19	Q. (BY MR. EWALT) Did you calculate Google Ads'
20	Table 4	20	share of the market for ad-buying tools for small
21	A. Uh-huh.	21	advertisers for any time before 2018?
22	Q and Page 213 has Table 11.	22	A. I don't recall. I don't believe so.
23	A. Okay.	23	
24	Q. And I think they're the same.		
25	A. Yes. Let me just		
	Page 143		D 145
			Page 145
1	Okay.	•	rage 14.)
1 2	Q. Let me ask the question.	i	rage 143
	•		Page 14.3
2	Q. Let me ask the question.		Page 14.3
2 3	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.		rage 14.3
2 3 4	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's		Page 14.3
2 3 4 5	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.		Page 14.3
2 3 4 5 6	<ul> <li>Q. Let me ask the question.</li> <li>A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.</li> <li>Q. Okay. Why do you think it's inaccurate?</li> </ul>		Page 14.3
2 3 4 5 6 7	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would		rage 14.3
2 3 4 5 6 7 8	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to review his code and		Page 14.3
2 3 4 5 6 7 8 9	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would		Q. (BY MR. EWALT) All right. Let's turn to your
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2 3 4 5 6 7 8 9 10	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to and compare it with our code to to be		Q. (BY MR. EWALT) All right. Let's turn to your
2 3 4 5 6 7 8 9 10 11 12	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to well and compare it with our code to to be able to comment on that.	12	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.
2 3 4 5 6 7 8 9 10 11 12 13	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to review his code and review and compare it with our code to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you	12 13	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to review his code and review and compare it with our code to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the	12 13 14	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9. A. Yes. Q. Does Table 1 provide a summary of your
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct	12 13 14 15	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9. A. Yes. Q. Does Table 1 provide a summary of your opinions in this case?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to review his code and review and compare it with our code to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct in what he states in Paragraph 25 of his surrebuttal report?	12 13 14 15 16 17	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes. Q. Does Table 1 provide a summary of your opinions in this case?  A. Yes. Q. Does the column titled "Relevant Market"
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to review his code and review and compare it with our code to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct in what he states in Paragraph 25 of his surrebuttal report?  MS. YOUNG: Objection; form.	12 13 14 15 16 17	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes. Q. Does Table 1 provide a summary of your opinions in this case? A. Yes. Q. Does the column titled "Relevant Market" describe each of the markets that you've defined to be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct in what he states in Paragraph 25 of his surrebuttal report?  MS. YOUNG: Objection; form.  A. Oh oh, I do have a view. I believe he is	12 13 14 15 16 17 18 19	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes. Q. Does Table 1 provide a summary of your opinions in this case? A. Yes. Q. Does the column titled "Relevant Market" describe each of the markets that you've defined to be relevant markets in this case?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to review his code and review and compare it with our code to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct in what he states in Paragraph 25 of his surrebuttal report?  MS. YOUNG: Objection; form.  A. Oh oh, I do have a view. I believe he is likely incorrect, but I haven't had a chance to, since	12 13 14 15 16 17 18 19 20	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes. Q. Does Table 1 provide a summary of your opinions in this case? A. Yes. Q. Does the column titled "Relevant Market" describe each of the markets that you've defined to be relevant markets in this case? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to review his code and review and compare it with our code to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct in what he states in Paragraph 25 of his surrebuttal report?  MS. YOUNG: Objection; form.  A. Oh oh, I do have a view. I believe he is likely incorrect, but I haven't had a chance to, since his surrebuttal report and he raises it, check that	12 13 14 15 16 17 18 19 20 21 22	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes. Q. Does Table 1 provide a summary of your opinions in this case? A. Yes. Q. Does the column titled "Relevant Market" describe each of the markets that you've defined to be relevant markets in this case? A. Yes. Q. Does the column titled "Conduct Affecting the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Let me ask the question.  A. I have I have not I have not reviewed this particular claim but I I don't believe it's accurate.  Q. Okay. Why do you think it's inaccurate?  A. Because the calculation of these fees well, I don't know I don't know why he is saying that we did what he claims to. I would have to I would have to I would have to I would have to to be able to comment on that.  Q. Okay. So it's fair to say, then, that as you sit here today, you don't have a view one way or the other as to whether Baye Professor Baye is correct in what he states in Paragraph 25 of his surrebuttal report?  MS. YOUNG: Objection; form.  A. Oh oh, I do have a view. I believe he is likely incorrect, but I haven't had a chance to, since his surrebuttal report and he raises it, check that claim.	12 13 14 15 16 17 18 19 20 21 22	Q. (BY MR. EWALT) All right. Let's turn to your rebuttal report, Page 9.  A. Yes. Q. Does Table 1 provide a summary of your opinions in this case? A. Yes. Q. Does the column titled "Relevant Market" describe each of the markets that you've defined to be relevant markets in this case? A. Yes. Q. Does the column titled "Conduct Affecting the Relevant Market" describe the only conduct that you're

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	Inditti col	111	
	Page 146		Page 148
1	A. Yes.	1	Bernanke, and DRS?
2	Q. (BY MR. EWALT) In either of your reports did	2	A. I don't
3	you express an opinion about whether any conduct,	3	MS. YOUNG: Objection; form.
4	other than the alleged tying, affected the publisher	4	A. I didn't.
5	ad server market?	5	Q. (BY MR. EWALT) In either of your reports did
6	A. The sorry, can you repeat that question	6	you express an opinion that RPO harmed competition in
7	again.	7	any market?
8	Q. In either of your reports did you express an	8	MS. YOUNG: Objection; form.
9	opinion about whether any conduct, other than the	9	A. I did not.
10	alleged tying, affected the publisher ad server	10	Q. (BY MR. EWALT) In either of your reports did
11	market?	11	you express an opinion that exchange bidding harmed
12	MS. YOUNG: Objection; form.	12	competition in any market?
13	A. Some of the conduct did affect those, but the	13	MS. YOUNG: Firm.
14	market for that was relevant for competitive harm	14	A. That exchange bidding itself, I did not.
15	was only with tying that it was affecting	15	Q. (BY MR. EWALT) In either of your reports did
16	competitive impacting on competition in that	16	you express an opinion that Open Bidding harmed
17	market.	17	competition in any market?
18	Q. (BY MR. EWALT) I see.	18	MS. YOUNG: Objection; form.
19	In either of your reports did you express an	19	A. Open Bidding itself, I did not.
20	opinion about whether any conduct, other than the	20	
21	alleged tying, harmed competition in the publisher ad		
22	server market?		
23	MS. YOUNG: Objection; form.		
24	A. I did not.		
25	Q. (BY MR. EWALT) In either of your reports did	25	Q. In either of your reports did you express an
	Page 147		Page 149
1	you express did you express an opinion about	1	opinion that Project Poirot harmed competition in any
2	whether any conduct, other than Bernanke and Global	2	market?
3	Bernanke harmed competition in the market for	3	MS. YOUNG: Objection; form.
4	ad-buying tools for small advertisers?	4	A. I did not express an opinion.
5	A. I did not.	5	Q. (BY MR. EWALT) In either of your reports did
6	MS. YOUNG: Objection; form.	6	you express your opinion in your report that
7	THE WITNESS: Oh, sorry.	7	Project Elmo harmed competition in any market?
8	MS. YOUNG: Go ahead.	8	MS. YOUNG: Objection; form.
9	A. I did not.	9	A. Project Elmo. Right. I did not.
10	Q. (BY MR. EWALT) In either of your reports did	10	Q. (BY MR. EWALT) In either of your reports did
11	you express an opinion about whether any conduct,	11	you express an opinion that Project Bell harmed
12	other than UPR, harmed competition in the market for	12	competition in any market?
13	ad-buying tools for large advertisers?	13	MS. YOUNG: Objection; form.
14	MS. YOUNG: Objection; form.	14	A. I'm forgetting whether Project Bell was also
15	A. I don't believe I did.	15	a name for something else, so I can't recall.
16	Q. (BY MR. EWALT) In either of your reports did	16	Q. (BY MR. EWALT) Okay. In either of your
17	you express an opinion about whether any conduct	17	reports did you express an opinion that Privacy
18	affected strike that.	18	Sandbox harmed competition in any market?
19	In either of your reports did you did	19	A. I did not separately evaluate Privacy
20	strike it again.	20	Sandbox.
21	In either of your reports did you express an	21	Q. Do you see that the middle column of Table 1
		22	in your rebuttal report is titled "Google's Estimated
22	opinion about whether competition in the ad exchange		
22 23	market was harmed by conduct, other than UPR, Dynamic	23	Market Share Across the Relevant Time Period"?
22			

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39 (Pages 150 - 153)

	HIGHLY CO	NFI	DENTIAL
	Page 154		Page 156
1	how do you how do go about doing this exercise?	1	A. Those outcomes, depending on the context, can
2	A. Yes.	2	be prices, quantities, investment, innovation, entry,
3	Q. So let me ask again.	3	exit, growth.
4	How do you distinguish anticompetitive	4	Q. Okay. Does a firm offering high quality
5	conduct from conduct that is not anticompetitive?	5	products harm competitors who can't match the firm's
6	A. So once you've identified the conduct at	6	high quality?
7	hand, you perform an analysis comparing the outcomes	7	MS. YOUNG: Objection; form.
8	that arose in the market with that conduct because	8	A. If the firm develops a high quality product,
9	you're analyzing conduct that actually took place.	9	that the competitors don't develop, that can harm
10	And compare it with what you can	10	that makes it more difficult for those competitors.
11	understand from an economic perspective using the	11	Q. (BY MR. EWALT) Is it anticompetitive for a
12	sum total and tools of that of the discipline, what	12	monopolist to offer high quality products?
13	would have likely happened had that conduct not taken	13	MS. YOUNG: Objection; form.
14	place. That's the first thing you do.	14	A. Not necessarily.
15	When you're doing that, you then analyze	15	Q. (BY MR. EWALT) Does a firm offering low
16	whether the conclusions between what we'll call the	16	prices harm competitors who have to cut their own
17	factual and the counterfactual, without the conduct,	17	prices to compete?
18	are being driven by the firm in question having market	18	MS. YOUNG: Objection; form.
19	power in a particular market that allowed them to be	19	A. To if we call harm, make it more difficult
20	able to do that conduct and other conditions that gave	20	for those competitors to earn a profit, yes.
21	them the incentive to do that conduct.	21	Q. (BY MR. EWALT) Is it anticompetitive for a
22	And that incentive was to give rise to	22	monopolist to offer prices that are low but still
23	anticompetitive effects at the time of that conduct or	23	above its costs?
24	ultimately manifesting themselves in the future.	24	MS. YOUNG: Objection; form.
25	Q. Okay. So do I have it right that starting	25	A. Generally speaking not.
	Page 155		Page 157
1	point for distinguishing anticompetitive conduct from	1	Q. (BY MR. EWALT) If Google offers products that
2	conduct that's not anticompetitive is to define a	2	help publishers make more money, would that be
3	factual factual world and a counterfactual world?	3	competition on the merits?
4	A. Is to so to is not to define as to	4	MS. YOUNG: Objection; form.
5	analyze and using both combination of economic	5	A. If Google yes, the publishers are the
6	approaches and evidence available to understand what	6	customers of of Google one of the things they're
7	the differences in market outcomes would be in the	7	interested is making money, so if Google assists them
8	factual versus the counterfactual with and without	8	in so doing, that that is I don't know if we
9	that conduct.	9	would call it competition on the merits. It's a
10	Q. So as a first step you need to identify what	10	good it's a it's a favorable thing for those
11	the counterfactual world is?	11	customers.
12	MS. YOUNG: Objection; form.	12	Q. (BY MR. EWALT) If Google offers products that
13	A. I don't know if it's a if it's a first	13	help advertisers win more impressions or achieve a
14	step. It's a a a necessary step.	14	better return on ad spend, would that be competition
15	Q. (BY MR. EWALT) It's necessary to identify	15	on the merits?
16	counterfactual world in order to reach conclusions	16	MS. YOUNG: Objection; form.
17	about whether conduct is anticompetitive?	17	A. If there are for the return on ad spend,
18	MS. YOUNG: Objection; form.	18	that is in terms of winning impressions, if they're
19	A. It is no, sometimes there is some degree	19	helping them win impressions overall, yes.
20	of uncertainty, so it might not be identifying a	20	Q. (BY MR. EWALT) Is it legitimate for Google to
21	single point. But broadly speaking, yes.	21	try to help publishers make more money?
22	Q. (BY MR. EWALT) You referred to outcomes.	22	MS. YOUNG: Objection; form.
23	A. Yes.	23	A. The word "legitimate" is seems to be a
24	Q. And what sorts of outcomes do you compare the	24	legal term from an economic perspective. We consider
25	actual world to the counterfactual world?	25	that many firms operating in a husiness-to-business

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25 that many firms operating in a business-to-business

25 actual world to the counterfactual world?

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	Page 158		Page 160
1	market try to help their customers earn more.	1	MS. YOUNG: Objection; form.
2	Q. (BY MR. EWALT) From an economic perspective,	2	A. Is it possible?
3	is it legitimate for Google to try to help publishers	3	THE WITNESS: Sorry.
4	make more money?	4	MS. YOUNG: Go ahead.
5	MS. YOUNG: Objection; form.	5	A. Is it possible?
6	A. Again, the the term you're saying is	6	Q. (BY MR. EWALT) Let me ask it again.
7	"legitimate," which is not is not a sort of	7	Is it possible for a company that is
8	economics term that we would use.	8	vertically integrated across multiple markets and that
9	Can it be welfare increasing for for	9	has monopoly power in those markets to compete without
10	Google to offer ways of which publishers can make more	10	harming competition?
11	money, yes, it can be.	11	MS. YOUNG: Objection; form.
12	Q. (BY MR. EWALT) Is it procompetitive for	12	A. Yes.
13	Google to help publishers make more money?	13	Q. (BY MR. EWALT) Is vertical integration
14	MS. YOUNG: Objection; form.	14	anticompetitive?
15	A. It would be the sort of thing we would expect	15	MS. YOUNG: Objection; form.
16	to see arise in a competitive market.	16	A. Vertical integration can be anticompetitive,
17	Q. (BY MR. EWALT) Would you expect in a	17	but it can also be not anticompetitive.
18	competitive market for Google to try to help	18	Q. (BY MR. EWALT) And can vertical integration
19	advertisers win more impressions or achieve a better	19	be procompetitive?
20	return on ad spend?	20	MS. YOUNG: Objection; form.
21	MS. YOUNG: Objection; form.	21	A. Vertical integration could be something that
22	A. In a competitive market, depending a little	22	we see emerge in competitive markets.
23	bit on the context, advertising is a little bit of a	23	Q. (BY MR. EWALT) In your reports, do you offer
24	tricky industry, but yes, it could be we would	24	opinion as whether Google's vertical integration is
25	expect to see that when there was competition for	25	anticompetitive?
	Page 159		
	_		Page 161
1	those advertisers.	1	A. In my report, what I say about Google's
2	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for	2	A. In my report, what I say about Google's vertical integration is that it played a key role in
2 3	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions	2 3	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.
2 3 4	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?	2 3 4	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an
2 3 4 5	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?  MS. YOUNG: Objection; form.	2 3 4 5	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an opinion as to whether Google's vertical integration
2 3 4 5 6	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?  MS. YOUNG: Objection; form.  A. Well, advertising is a controversial thing.	2 3 4 5 6	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an opinion as to whether Google's vertical integration itself is anticompetitive?
2 3 4 5 6 7	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?  MS. YOUNG: Objection; form.  A. Well, advertising is a controversial thing.  But, generally speaking, we take advertising as a	2 3 4 5 6 7	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an opinion as to whether Google's vertical integration itself is anticompetitive?  MS. YOUNG: Objection; form.
2 3 4 5 6 7 8	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?  MS. YOUNG: Objection; form.  A. Well, advertising is a controversial thing.  But, generally speaking, we take advertising as a normal economic product having a competition spur	2 3 4 5 6 7 8	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an opinion as to whether Google's vertical integration itself is anticompetitive?  MS. YOUNG: Objection; form.  A. Its vertical integration was not a conduct
2 3 4 5 6 7 8	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?  MS. YOUNG: Objection; form.  A. Well, advertising is a controversial thing.  But, generally speaking, we take advertising as a normal economic product having a competition spur Google to do things that are in an advertiser's	2 3 4 5 6 7 8 9	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an opinion as to whether Google's vertical integration itself is anticompetitive?  MS. YOUNG: Objection; form.  A. Its vertical integration was not a conduct that I evaluated.
2 3 4 5 6 7 8 9	those advertisers.  Q. (BY MR. EWALT) Is it welfare enhancing for Google to try to help advertisers win more impressions or achieve a better return on ad spend?  MS. YOUNG: Objection; form.  A. Well, advertising is a controversial thing.  But, generally speaking, we take advertising as a normal economic product having a competition spur Google to do things that are in an advertiser's interest is potentially welfare enhancing.	2 3 4 5 6 7 8 9	A. In my report, what I say about Google's vertical integration is that it played a key role in motivating the anticompetitive conduct of Google.  Q. And but in your reports, do you offer an opinion as to whether Google's vertical integration itself is anticompetitive?  MS. YOUNG: Objection; form.  A. Its vertical integration was not a conduct that I evaluated.  Q. (BY MR. EWALT) All right. Let's switch gears
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	Page 162		Page 164
1	A. That's exactly why I	1	Q. Have AdX direct tags been in use since at
2	Q. Opening report, Paragraph 414.	2	least 2014?
3	A. Thank you.	3	A. They have been in use at the data set we
4	Paragraph 414. Sorry.	4	they were listed as being in use in the data set we
5	Q. Yes.	5	evaluated.
6	Second sentence. A. Yes.	6	Q. And in use in that data set since at least 2014?
7		7	A. That is correct.
8	"Google conditioned the use of AdX (the tying product) with the sale of DFP of its DFP ad	8	
10	server (the tied product ). "	10	Q. Can a publisher still use AdX direct tags today?
11	Q. So in your tying analysis, did you consider	11	MS. YOUNG: Objection; form.
12	AdX to be the tying product and DFP to be the tied	12	A. As I understand it, these were legacy things
13	product?	13	that so they may still exist, some publishers that
14	A. I did.	14	could use them.
15	Q. Do AdX Direct Tags enable third-party ad	15	Q. (BY MR. EWALT) Is it your understanding that
16	servers to call AdX to serve an ad?	16	AdX sends real-time bids into DFP?
17	MS. YOUNG: Objection; form.	17	A. That is my understanding.
18	A. I believe that's what they used to be able to	18	Q. What is the basis of that understanding?
19	do when they were used.	19	A. Oh, sorry. AdX sends real-time bids into
20	Q. (BY MR. EWALT) Do AdX Direct Tags allow a	20	AdX is the as the DFP allows publishers to offer
21	publisher to request ads from AdX in real time even if	21	inventory that is can receive real-time bids.
22	the publisher does not use DFP?	22	Q. Let me let me ask that question again. If
23	MS. YOUNG: Objection; form.	23	you don't understand the question, let me know.
24	Q. (BY MR. EWALT) And I can you can take a	24	A. Okay.
25	look at Paragraph 429 of your opening report if that's	25	Q. Is it your understanding that AdX sends
	Page 163		P. 165
			Page 165
1		1	Page 165 real-time bids into DFP?
1 2	helpful.	1 2	real-time bids into DFP?
	helpful. A. Okay.		real-time bids into DFP?  MS. YOUNG: Objection; form.
2	helpful.	2	real-time bids into DFP?
2 3	helpful.  A. Okay.  Q. And then I'll ask it again. Let me know when you're ready.	2 3	real-time bids into DFP?  MS. YOUNG: Objection; form.  A. I'm not quite sure I understand the question.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	helpful.  A. Okay. Q. And then I'll ask it again. Let me know when you're ready. A. Thank you very much. Yes. Yes, it could. Q. Let me just ask it so we have a clear record here. A. Uh-huh. Q. Do AdX Direct Tags allow a publisher to request ads from AdX in real time even if the publisher does not use DFP? MS. YOUNG: Objection; form. A. Yes. Q. (BY MR. EWALT) Do AdX Direct Tags allow a publisher to receive tags from AdX even if a publisher does not use DFP? A. I believe they do. Q. All right. Could you please turn to Page 157 of your report.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	real-time bids into DFP?  MS. YOUNG: Objection; form.  A. I'm not quite sure I understand the question.  Q. (BY MR. EWALT) What's tripping you up on the question?  A. The word "send bids."  Q. Okay. We can move on.  You analyze tying in your reports.  Is that fair?  A. I do.  Q. And how did Google implement the tie?  A. Well, it did several things. I describe it sort of at a high level in part of my report and then more detail later on.  But basically the tie between AdX and  DFP started if I look at just so you're on the same page, at Paragraph 416 of my opening report.  It started in 2009 when Google imposed some technical limitations preventing publishers from using third-party ad servers to be able to sell into
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	helpful.  A. Okay. Q. And then I'll ask it again. Let me know when you're ready. A. Thank you very much. Yes. Yes, it could. Q. Let me just ask it so we have a clear record here. A. Uh-huh. Q. Do AdX Direct Tags allow a publisher to request ads from AdX in real time even if the publisher does not use DFP? MS. YOUNG: Objection; form. A. Yes. Q. (BY MR. EWALT) Do AdX Direct Tags allow a publisher to receive tags from AdX even if a publisher does not use DFP? A. I believe they do. Q. All right. Could you please turn to Page 157 of your report. You see Figure 12 there?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	real-time bids into DFP?  MS. YOUNG: Objection; form.  A. I'm not quite sure I understand the question.  Q. (BY MR. EWALT) What's tripping you up on the question?  A. The word "send bids."  Q. Okay. We can move on.  You analyze tying in your reports.  Is that fair?  A. I do.  Q. And how did Google implement the tie?  A. Well, it did several things. I describe it sort of at a high level in part of my report and then more detail later on.  But basically the tie between AdX and DFP started if I look at just so you're on the same page, at Paragraph 416 of my opening report.  It started in 2009 when Google imposed some technical limitations preventing publishers from using third-party ad servers to be able to sell into Google's ad exchange in its real-time open options.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	helpful.  A. Okay. Q. And then I'll ask it again. Let me know when you're ready. A. Thank you very much. Yes. Yes, it could. Q. Let me just ask it so we have a clear record here. A. Uh-huh. Q. Do AdX Direct Tags allow a publisher to request ads from AdX in real time even if the publisher does not use DFP? MS. YOUNG: Objection; form. A. Yes. Q. (BY MR. EWALT) Do AdX Direct Tags allow a publisher to receive tags from AdX even if a publisher does not use DFP? A. I believe they do. Q. All right. Could you please turn to Page 157 of your report. You see Figure 12 there? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	real-time bids into DFP?  MS. YOUNG: Objection; form.  A. I'm not quite sure I understand the question.  Q. (BY MR. EWALT) What's tripping you up on the question?  A. The word "send bids."  Q. Okay. We can move on.  You analyze tying in your reports.  Is that fair?  A. I do.  Q. And how did Google implement the tie?  A. Well, it did several things. I describe it sort of at a high level in part of my report and then more detail later on.  But basically the tie between AdX and  DFP started if I look at just so you're on the same page, at Paragraph 416 of my opening report.  It started in 2009 when Google imposed some technical limitations preventing publishers from using third-party ad servers to be able to sell into Google's ad exchange in its real-time open options.  And then in 2016 it actually made that a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	helpful.  A. Okay. Q. And then I'll ask it again. Let me know when you're ready. A. Thank you very much. Yes. Yes, it could. Q. Let me just ask it so we have a clear record here. A. Uh-huh. Q. Do AdX Direct Tags allow a publisher to request ads from AdX in real time even if the publisher does not use DFP? MS. YOUNG: Objection; form. A. Yes. Q. (BY MR. EWALT) Do AdX Direct Tags allow a publisher to receive tags from AdX even if a publisher does not use DFP? A. I believe they do. Q. All right. Could you please turn to Page 157 of your report. You see Figure 12 there? A. Yes. Q. And the red dots refer to AdX direct tag,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	real-time bids into DFP?  MS. YOUNG: Objection; form.  A. I'm not quite sure I understand the question.  Q. (BY MR. EWALT) What's tripping you up on the question?  A. The word "send bids."  Q. Okay. We can move on.  You analyze tying in your reports.  Is that fair?  A. I do.  Q. And how did Google implement the tie?  A. Well, it did several things. I describe it sort of at a high level in part of my report and then more detail later on.  But basically the tie between AdX and DFP started if I look at just so you're on the same page, at Paragraph 416 of my opening report.  It started in 2009 when Google imposed some technical limitations preventing publishers from using third-party ad servers to be able to sell into Google's ad exchange in its real-time open options.  And then in 2016 it actually made that a contractual tie. That means that publishers who
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	helpful.  A. Okay. Q. And then I'll ask it again. Let me know when you're ready. A. Thank you very much. Yes. Yes, it could. Q. Let me just ask it so we have a clear record here. A. Uh-huh. Q. Do AdX Direct Tags allow a publisher to request ads from AdX in real time even if the publisher does not use DFP? MS. YOUNG: Objection; form. A. Yes. Q. (BY MR. EWALT) Do AdX Direct Tags allow a publisher to receive tags from AdX even if a publisher does not use DFP? A. I believe they do. Q. All right. Could you please turn to Page 157 of your report. You see Figure 12 there? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	real-time bids into DFP?  MS. YOUNG: Objection; form.  A. I'm not quite sure I understand the question.  Q. (BY MR. EWALT) What's tripping you up on the question?  A. The word "send bids."  Q. Okay. We can move on.  You analyze tying in your reports.  Is that fair?  A. I do.  Q. And how did Google implement the tie?  A. Well, it did several things. I describe it sort of at a high level in part of my report and then more detail later on.  But basically the tie between AdX and  DFP started if I look at just so you're on the same page, at Paragraph 416 of my opening report.  It started in 2009 when Google imposed some technical limitations preventing publishers from using third-party ad servers to be able to sell into Google's ad exchange in its real-time open options.  And then in 2016 it actually made that a

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	moner co.	T	
	Page 166		Page 168
1	forced to sign a DFP/AdX contract. Was the only way	1	A. That was the critical decision point because
2	they could do so. And that gave made it a	2	at that point Google had the evidence that I that
3	contractual tie.	3	I that I I list there the ability to offer
4	Q. All right. So if I understand this right,	4	third-party ad servers access to real-time bidding.
5	it's your opinion that Google implemented the alleged	5	Q. (BY MR. EWALT) And that technology, that
6	tie of DFP to AdX through technical limitations	6	technical limitation, is called third-party Dynamic
7	beginning in 2019 [verbatim] and contractual	7	Allocation; is that right?
8	provisions beginning in 2016?	8	A. Yes. Well, that's that wasn't a technical
9	MS. YOUNG: Objection; form.	9	limitation. That was a technical that was a a
10	A. That is correct.	10	technically feasible thing.
11	MS. YOUNG: And think I you meant 2009.	11	Q. And it was a limitation because
12	I think you said 2019.	12	A. They
13	MR. EWALT: Thank you very much.	13	(Speaking simultaneously.)
14	MS. YOUNG: Just for the purpose of the	14	Q. (BY MR. EWALT) it could do more?
15	record, yeah.	15	A. No, because they didn't actually offer it.
16	MR. EWALT: I'll fix it.	16	Q. Ah, okay. So a technical limitation that
17	Q. (BY MR. EWALT) Is it your opinion that Google	17	effectuated a tie
18	implemented the alleged tie of DFP to AdX through	18	A. Yes.
19	technical limitations beginning in 2009 and	19	Q was Google's decision in 2009 not to offer
20	contractual provisions beginning in 2016?	20	third-party Dynamic Allocation?
21	A. Okay. Yes, that is my opinion. It's my	21	A. Right. And if they had offered that, there
22	understanding.	22	wouldn't be a tie.
23	Q. What technical limitations are you referring	23	Q. Okay. So as of 2009, is it your view that
24	to?	24	Google's refusal to offer third-party Dynamic
25	A. Okay. So if we go to technical	25	Allocation as a way to integrate AdX with third-party
	Page 167		Page 169
1	limitations I refer to.	1	ad servers was anticompetitive?
2	Q. I'll suggest a paragraph. You tell me if	2	MS. YOUNG: Objection; form.
3	this is the right one.	3	A. That was the what I've said is that
4	A. 424.	4	Google's tying behavior and sort of, as you can see
5	Q. I was going to go 435.	5	it, ratcheted it up. That consequence of that was
6	A. Oh, okay.	6	anticompetitive.
7	Q. But you tell me if it's that if that's not	7	Q. (BY MR. EWALT) Do you think
8	right.	8	A. It took them some time to get the full force
9	A. Yes. Yes, that's one of the technical	9	of it in.
10			
	limitations.	10	Q. When did the full force occur?
11	limitations.  Q. Okay. And were there other technical	10 11	<ul><li>Q. When did the full force occur?</li><li>A. I would say that I would if I had to give</li></ul>
11 12			
	Q. Okay. And were there other technical	11	A. I would say that I would if I had to give
12	Q. Okay. And were there other technical limitations, other than the one that you refer to in	11 12	A. I would say that I would if I had to give a date, I would mark that as 2016.
12 13	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the	11 12 13	<ul><li>A. I would say that I would if I had to give</li><li>a date, I would mark that as 2016.</li><li>Q. Do you think that Google should have offered</li></ul>
12 13 14	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?	11 12 13 14	<ul> <li>A. I would say that I would if I had to give</li> <li>a date, I would mark that as 2016.</li> <li>Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing</li> </ul>
12 13 14 15	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were	11 12 13 14 15	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from
12 13 14 15 16	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier	11 12 13 14 15 16	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?
12 13 14 15 16 17	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier regarding how they implemented their GPT tags and	11 12 13 14 15 16 17	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?  MS. YOUNG: Objection; form.
12 13 14 15 16 17 18	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier regarding how they implemented their GPT tags and other tags that had limitations on them as well.	11 12 13 14 15 16 17 18	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?  MS. YOUNG: Objection; form.  A. My opinion is that had Google not had market
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12 13 14 15 16 17 18 19 20	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier regarding how they implemented their GPT tags and other tags that had limitations on them as well.  Q. But is it is it fair to say that there was not a tie until this technology that you're talking	11 12 13 14 15 16 17 18 19 20	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?  MS. YOUNG: Objection; form.  A. My opinion is that had Google not had market power through AdX and had not been vertically integrated, that they and their ads of a product
12 13 14 15 16 17 18 19 20 21	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier regarding how they implemented their GPT tags and other tags that had limitations on them as well.  Q. But is it is it fair to say that there was not a tie until this technology that you're talking about technical limitation, rather, that you're	11 12 13 14 15 16 17 18 19 20 21	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?  MS. YOUNG: Objection; form.  A. My opinion is that had Google not had market power through AdX and had not been vertically integrated, that they and their ads of a product would have offered third-party Dynamic Allocation.
12 13 14 15 16 17 18 19 20 21 22	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier regarding how they implemented their GPT tags and other tags that had limitations on them as well.  Q. But is it is it fair to say that there was not a tie until this technology that you're talking about technical limitation, rather, that you're talking about in 2009?	11 12 13 14 15 16 17 18 19 20 21 22	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?  MS. YOUNG: Objection; form.  A. My opinion is that had Google not had market power through AdX and had not been vertically integrated, that they and their ads of a product would have offered third-party Dynamic Allocation.  Q. (BY MR. EWALT) And is it your opinion that it was anticompetitive for Google not to build technology
12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. And were there other technical limitations, other than the one that you refer to in Paragraph 435, through which Google implemented the tie?  A. I think not necessarily 2009, but there were other things that emerged that I described earlier regarding how they implemented their GPT tags and other tags that had limitations on them as well.  Q. But is it is it fair to say that there was not a tie until this technology that you're talking about technical limitation, rather, that you're talking about in 2009?  A. Yeah. That was	11 12 13 14 15 16 17 18 19 20 21 22 23	A. I would say that I would if I had to give a date, I would mark that as 2016.  Q. Do you think that Google should have offered third-party Dynamic Allocation to allow competing publisher ad servers to receive real-time bids from AdX?  MS. YOUNG: Objection; form.  A. My opinion is that had Google not had market power through AdX and had not been vertically integrated, that they and their ads of a product would have offered third-party Dynamic Allocation.  Q. (BY MR. EWALT) And is it your opinion that it

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Page 172  1				
2 A. My view is that it is anticompetitive for the 3 reasons that I just said. 4 Q. (BY MR. EWALT) Okay. I just want to -I 5 think this is a yes-or-no question, but if it's not 6 let me know. 7 Is it your opinion that it was anticompetitive 8 for Google not to build technology that would have 9 allowed competing publisher and servers to receive 10 real-time bids from AdX? 11 MS. YOUNG: Objection: form. 12 A. I think it was anticompetitive for Google to 13 choose to tie its product. 15 Q. (BY MR. EWALT) Right. And but I'm trying 16 to understand what you mean by tie, and at least in 17 the 2009 period here. 18 A. Well, you you you 19 MS. YOUNG: I don't think there's a 19 pending question. 21 THE WITNESS: Oh. okay. 22 MS. YOUNG: Let him ask the question and 23 make a clearer record. 24 Q. (BY MR. EWALT) What did you want to say? 25 A. Google had the ability on behalf of its 26 pending question is it is 27 and it was effectively costless for them to do so, 28 their decision to turn that off. 29 poblishers to offer on behalf of of 2 20 publishers to wore using AdX to offer 21 interruptibility with third-party ad servers. 23 And had an as a decision to turn that off. 24 O, (BY MR. EWALT) What did you want to say? 25 perspective, what was the decision? 26 And because they had that feasibility and it was effectively costless for them to do so, 27 And have insue they had that feasibility and the was effectively costless for them to do so, 28 their decision was a decision to turn that off. 29 So in your faming of it, you are 20 framing it as a decision to turn that off. 30 concerned at characterizing that way because it may 11 have implied that there were costs to it from doing 18 the value of those costs. 31 ft hose costs were low, my answer would in the part of the costs were extremely high, my 19 and it was effectively costless for Google to offer 19 technology? 4 And that is not my reading of the 19 certain the part of the costs were extremely high, my 19 and it was effectively costless for them to do	1	Page 170	1	Page 172
3 analyzing anticompetitive conduct that I outlined to 4 Q. (BY MR. EWALT) Okay. I just want to -1 think this is a yes-or-no question, but if it's not 5 let lem know. 5 I your opinion that it was anticompetitive for Google not to build technology that would have allowed competing publisher and servers to receive real-rime bids from AMZ. 6 I your opinion that it was anticompetitive for Google not to build technology that would have allowed competing publisher and servers to receive real-rime bids from AMZ. 6 I was a street of the		5		
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11 MS. YOUNG: Objection; form. 12 A. I think it was anticompetitive for Google to 13 choose to te its product. 14 its product. 15 Q. (BY MR. EWALT) Right. And – but I'm trying 16 to understand what you mean by tie, and at least in 17 the 2009 period here. 18 A. Well, you – you – you – 19 MS. YOUNG: I don't think there's a 20 pending question. 21 THE WITNESS: Oh, okay. 22 MS. YOUNG: Let him ask the question and 23 make a clearer record. 24 Q. (BY MR. EWALT) What did you want to say? 25 A. Google had the ability on behalf of its 26 publishers to offer on behalf of – of – of 27 publishers who were using AdX to offer 28 and the And the question its: From an economic 39 perspective, what was the decision? 40 And because they had that feasibility and it was effectively costless for Hooding 41 framing it as a decision to turn that off. 42 So in your framing of it, you are 43 framing it as a decision to turn that off. 44 And that is not my reading of the 45 evidence presented here. 46 Q. Okay. If it was costless for Google to offer 46 framing it as a decision to turn that off. 47 A. It would depend on the magnitude of those costs. 48 their decision was a decision to turn that off. 49 So in your framing of it, you are 40 framing it as a decision to turn that off. 41 And that is not my reading of the 42 evidence presented here. 43 evidence presented here. 44 And that is not my reading of the 45 evidence presented here. 46 Q. Okay. If it was costless for Google to offer 47 Live would it have been anticompetitive for Google not to offer such technology? 48 from AdX, would it have been anticompetitive for Google not to offer such technology? 49 Could you turn to Paragraph 446, please, of 17 your opinion that Google 20 contractuall tie. 40 Could you turn to Paragraph 446, please, of 27 your opinion that Google 20 contractually required publishers to use DFP in order 42 your opinion that for contracts that 42 decision looking at the counterfactual. But had they 40 And monopoly power and been vertically integrated, 45 for inst				
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23 make a clearer record.  Q. (BY MR. EWALT) What did you want to say? 24 because they were trying to enhance their monopoly 25 A. Google had the ability on behalf of its  Page 171 1 publishers to offer on behalf of of of 2 publishers who were using AdX to offer 3 interruptibility with third-party ad servers.  4 And the question is: From an economic 5 perspective, what was the decision? 6 And because they had that feasibility 7 and it was effectively costless for them to do so, 8 their decision was a decision to turn that off. 9 So in your framing of it, you are 10 framing it as a decision to turn it on which I was 11 concerned at characterizing that way because it may 12 have implied that there were costs to it from doing 13 so. 14 And that is not my reading of the 15 evidence presented here. 16 Q. Okay. If it was costless for Google to offer 17 technology that would have allowed competing publisher ad servers to receive real-time bids from AdX, was 19 would it have been anticompetitive for Google not to 10 offer such technology? 11 If those costs were low, my answer would 11 If those costs were extremely high, my 12 naver would be different. 13 Q. (BY MR. EWALT) Let's talk about the 14 contractual tie. 15 concerned at characterizing that way because it may 16 the would have allowed competing publisher ad servers to receive real-time bids from AdX, was 17 would it have been anticompetitive for Google not to 18 A. Okay. 19 Would it have been anticompetitive for Google not to 19 Q. Could you turn to Paragraph 446, please, of 19 your opening report. 18 A. Okay. 19 Q. All right. Is it your opinion that Google 19 contractually required publishers to use DFP in order 20 contractually required publishers to use DFP in order 21 to access AdX demand? 22 A. My understanding is that for contracts that 23 decision looking at the counterfactual. But had they 24 not had monopoly power and been vertically integrated, 25 for instance, that the two products were tied				
24 Q. (BY MR. EWALT) What did you want to say? 25 A. Google had the ability on behalf of its  Page 171  1 publishers to offer on behalf of of of 2 publishers who were using AdX to offer 3 interruptibility with third-party ad servers.  4 And the question is: From an economic 5 perspective, what was the decision? 6 And because they had that feasibility 7 and it was effectively costless for them to do so, 8 their decision was a decision to turn that off. 9 So in your framing of it, you are 10 framing it as a decision to turn it on which I was 11 concerned at characterizing that way because it may 12 have implied that there were costs to it from doing 13 so. 14 And that is not my reading of the 15 evidence presented here. 16 Q. Okay. If it was costless for Google to offer 17 technology that would have allowed competing publisher ad servers to receive real-time bids from AdX, was 19 would it have been anticompetitive for Google not to 20 offer such technology?  6 MS. YOUNG: Objection; form. 7 A. It would depend on the magnitude of those 20 costs. 21 Concerned at characterizing that way because it may 22 answer would be different. 23 Q. (BY MR. EWALT) Let's talk about the 24 contractual tie. 25 contractual tie. 26 Could you turn to Paragraph 446, please, of 27 your opening report. 28 A. Okay. 29 G. All right. Is it your opinion that Google 29 contractually required publishers to use DFP in order 20 offer such technology? 20 A. My analysis is that we cannot know that 21 decision looking at the counterfactual. But had they 22 decision looking at the counterfactual. But had they 23 decision looking at the counterfactually integrated, 24 for instance, that the two products were tied				
25 A. Google had the ability on behalf of its  Page 171 1 publishers to offer on behalf of of of 2 publishers who were using AdX to offer 3 interruptibility with third-party ad servers. 4 And the question is: From an economic 5 perspective, what was the decision? 6 And because they had that feasibility 7 and it was effectively costless for them to do so, 8 their decision was a decision to turn that off. 9 So in your framing of it, you are 10 framing it as a decision to turn it on which I was 11 concerned at characterizing that way because it may 12 have implied that there were costs to it from doing 13 so. 14 And that is not my reading of the 15 evidence presented here. 16 Q. Okay. If it was costless for Google to offer 17 technology that would have allowed competing publisher 18 adservers to receive real-time bids from AdX, was- 19 would it have been anticompetitive for Google not to 20 offer such technology?  10 MS. YOUNG: Objection; form. 11 If those costs were low, my answer would 12 not change from the costless case. 13 Q. (BY MR. EWALT) Let's talk about the 14 contractual tie. 15 evidence presented here. 15 A. Okay. 16 Q. Could you turn to Paragraph 446, please, of 17 your opening report. 18 A. Okay. 19 would it have been anticompetitive for Google not to 20 offer such technology? 21 MS. YOUNG: Objection; form. 22 A. My analysis is that we cannot know that 23 decision looking at the counterfactual. But had they 24 not had monopoly power and been vertically integrated, 25 position in the market for doegle of offering technology that would have allowed 26 offer such technology? 27 A. It would depend on the magnitude of those 28 costs. 29 If those costs were low, my answer would 20 not change from the costless case. 21 If those costs were extremely high, my 22 answer would be different. 33 Q. (BY MR. EWALT) Let's talk about the 34 contractuall tie. 35 Q. Could you turn to Paragraph 446, please, of 36 Q. Could you turn to Paragraph 446, please, of 37 your opening report. 38 Q. Okay. 39 Q. All right. Is				
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offer such technology?  MS. YOUNG: Objection; form.  A. My analysis is that we cannot know that decision looking at the counterfactual. But had they not had monopoly power and been vertically integrated,  offer such technology?  Contractually required publishers to use DFP in order to access AdX demand?  A. My understanding is that for contracts that were put in place that you and publisher contracts, for instance, that the two products were tied	18	ad servers to receive real-time bids from AdX, was	18	A. Okay.
MS. YOUNG: Objection; form.  21 to access AdX demand?  22 A. My analysis is that we cannot know that  23 decision looking at the counterfactual. But had they  24 not had monopoly power and been vertically integrated,  25 to access AdX demand?  26 A. My understanding is that for contracts that  27 were put in place that you and publisher contracts,  28 for instance, that the two products were tied	19		19	
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24 not had monopoly power and been vertically integrated, 24 for instance, that the two products were tied	22		22	A. My understanding is that for contracts that
	23	decision looking at the counterfactual. But had they	23	were put in place that you and publisher contracts,
25 my assessment is they would have offered that 25 contractually.	24	not had monopoly power and been vertically integrated,	24	for instance, that the two products were tied
			25	contractually

44 (Pages 170 - 173)

	Page 174		Page 176
1	Q. And I'm trying to understand what you mean by	1	as listed in the footnotes here.
2	"tied contractually."	2	Q. (BY MR. EWALT) But you did not rely on the
3	A. It meant that if you wanted to access AdX	3	contracts themselves in reaching your opinions about
4	demands, you have to use DFP.	4	the contractual tie.
5	Q. Okay. So I just want to confirm that it is,	5	Is that fair?
6	in fact, your opinion that Google's contracts required	6	MS. YOUNG: Objection; form.
7	publishers to use DFP in order to obtain access to AdX	7	A. I didn't feel it was I it was not my
8	demand?	8	role to provide a legal analysis of those, which is
9	MS. YOUNG: Objection; form.	9	what you're asking for there.
10	A. My understanding of of those contracts	10	Q. (BY MR. EWALT) Could you please turn to
11	and I will caveat that it is my understanding because	11	Paragraph 297 of your rebuttal report.
12	I am not a lawyer was that that's what they	12	A. Yes.
13	would would do.	13	Q. And that paragraph describes a communication
14	MS. YOUNG: So we've been going over an	14	from Google to publishers in connection with the move
15	hour, so it's just for court reporter's purposes and	15	to the unified contract; is that right?
16	everyone else's that we break at a good time.	16	MS. YOUNG: Objection; form.
17	MR. EWALT: Okay.	17	A. Can you repeat the question?
18	Q. (BY MR. EWALT) And I believe you said that	18	Q. (BY MR. EWALT) Does Paragraph 297 of your
19	Google implemented this contractual tie in June 2016?	19	rebuttal report describe the communication from Google
20	A. Yes.	20	to publishers about the transition to the unified DFP
21	Q. And so there was no contractual tie before	21	AdX contract?
22	June 2016; is that correct?	22	A. Yes.
23	MS. YOUNG: Objection; form.	23	Q. I want to direct your attention to the second
24	A. That is my well, that that's that's	24	sentence there third sentence, reads: "The message
25	my understanding of what a contractual tie was of that	25	states to continue using AdX, our partners now need to
	Page 175		Page 177
1	date.	1	sign a new contract that includes terms for both AdX
2	Q. (BY MR. EWALT) Is it your opinion that the	2	and DFP. This contract will give you access to DFP
3	contractual tie is contained in the unified DFP AdX	3	features, but there is no obligation to use them."
4	contract?	4	Do you see that?
5	MS. YOUNG: Objection; form.	5	A. Yes.
6	A. I believe that that's where it is.	6	Q. And so you understand that when it was
7	Q. (BY MR. EWALT) Have you ever reviewed a	7	rolling out the unified DFP AdX contract, Google told
8	unified DFP AdX contract?	8	publishers that they would have no obligation to use
9	A. I have looked at it. And had a normal	9	DFP; is that right?
10	reaction to the contract.	10	MS. YOUNG: Objection; form.
11	<ul> <li>Q. You don't cite a unified DFP AdX contract in</li> </ul>	11	A. I I acknowledge that's what it says in my
	Q. Tou don't the a unified DIT Ada contract in		
12	your reports, do you?	12	report.
12 13	your reports, do you?  MS. YOUNG: Objection; form.	12 13	Q. (BY MR. EWALT) And did you have how does
13 14	your reports, do you?	13 14	Q. (BY MR. EWALT) And did you have how does the fact that Google told publishers that there was no
13	your reports, do you?  MS. YOUNG: Objection; form.  A. No, I cite other things describing these things.	13	Q. (BY MR. EWALT) And did you have how does the fact that Google told publishers that there was no obligation to use DFP inform your analysis of whether
13 14	your reports, do you?  MS. YOUNG: Objection; form.  A. No, I cite other things describing these things.  Q. (BY MR. EWALT) But it's your testimony that	13 14	Q. (BY MR. EWALT) And did you have how does the fact that Google told publishers that there was no obligation to use DFP inform your analysis of whether the unified DFP AdX contract actually required
13 14 15	your reports, do you?  MS. YOUNG: Objection; form.  A. No, I cite other things describing these things.  Q. (BY MR. EWALT) But it's your testimony that you have, in fact, reviewed such a contract?	13 14 15	Q. (BY MR. EWALT) And did you have how does the fact that Google told publishers that there was no obligation to use DFP inform your analysis of whether the unified DFP AdX contract actually required publishers to use DFP?
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1	Video 4 of Joshua Gans. Off the record. The time is	1	could publishers use DFP or Google Ad Manager to set
2	2:44.	2	price floors for ad exchanges other than AdX?
3	(Break from 2:44 p.m. to 3:00 p.m.)	3	MS. YOUNG: Objection; form.
4	THE VIDEOGRAPHER: We're now on the	4	A. They could set price floors for they could
5	record. Video 5 of Joshua Gans. The time is	5	set price floors for sorry. My
6	approximately 3:00.	6	Yes, they could.
7	Q. (BY MR. EWALT) Professor Gans, did you	7	Q. (BY MR. EWALT) And I want to make sure you
8	discuss the substance of your testimony with counsel	8	heard part of the question here, is could they
9	during the break?	9	could they use DFP or Google Ad Manager, so let me
10	MS. YOUNG: Same instruction that we've	10	start over.
11	been giving previously, that the expert stipulation in	11	A. Okay.
12	this case prohibits the disclosure of the the	12	Q. Before Google implemented UPR, could
13	contents of communication between the testifying	13	publishers use DFP or Google Ad Manager to set price
14	expert and counsel.	14	floors for ad exchanges other than AdX?
15	So based on that, I instruct	15	MS. YOUNG: Objection; form.
16	Professor Gans not to disclose the contents of his	16	A. My understanding is that they they could
17	communications with counsel.	17	by the way that they integrated with Header Bidding.
18	MR. EWALT: Based on that instruction,	18	Q. (BY MR. EWALT) If publishers could not use
19	we will move on.	19	DFP or Google Ad Manager to set price floors for ad
20	Q. (BY MR. EWALT) If Google enabled AdX to send	20	exchanges other than AdX before UPR, would that affect
21	real-time bids to third-party publisher ad servers,	21	your analysis of the competitive effects from UPR?
22	would that resolve any competition concerns about	22	MS. YOUNG: Objection; form.
23	Google tying DFP to AdX?	23	A. My understanding was that UPR was a
24	MS. YOUNG: Objection; form.	24	restriction on the differential price floors that
25	A. It depends what you mean by "sends real-time	25	publishers could set through DFP. I'm if I am to
	Page 179		Page 181
1	bids" and if they started allowing that right now the	1	understand what you're asking me as a hypothetical,
1 2		1 2	understand what you're asking me as a hypothetical, you're saying is if UPR existed before you UPR would
	bids" and if they started allowing that right now the consequences of the previous time would still be with us.	2 3	understand what you're asking me as a hypothetical, you're saying is if UPR existed before you UPR would UPR have had an had a an impact.
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	Page 182		Page 184
1	A. The specific requirement of UPR that	1	discussion throughout that section.
2	restricted that ability did not simplify things for	2	Q. Did you consider it an economic methodology
3	publishers.	3	to examine Google's intent?
4	Q. (BY MR. EWALT) Does UPR have any effect on a	4	MS. YOUNG: Objection; form.
5	publisher that chooses not to use DFP?	5	Go ahead.
6	MS. YOUNG: Objection; form.	6	A. I it is common in antitrust cases for
7	A. As I understand it, UPR was implemented	7	economists to consider documents that were produced
8	through DFP, So not directly for other people.	8	either under oath or in context where we believe that
9	Q. (BY MR. EWALT) Does UPR require that the	9	they were not guided by that they were guided by
10	same price floors apply to AdX and other exchanges?	10	market prices.
11	A. Well, there were some restrictions on how you	11	Q. (BY MR. EWALT) Is it common for economists to
12	could differentiate your price floors between	12	render opinions about a company's intent?
13	exchanges, as I understood it.	13	A. Yeah
14	Q. Does UPR prevent publishers from setting	14	MS. YOUNG: Objection; form.
15	price floors in Google Ad Manager at advantaged AdX	15	Go ahead.
16	over other ad exchanges?	16	A. Yeah. Yes.
17	MS. YOUNG: Objection; form.	17	Q. (BY MR. EWALT) Do you consider yourself an
18	A. I don't think that they did. I I I	18	expert in understanding the intent behind company's
19	believe that the I can't recall exactly, but I	19	actions?
20	thought there might be I I recall an asymmetry	20	A. That is one of the things that I do as an
21	with how those price floors the UPR rules applied.	21	economics economics scholar.
22	Q. (BY MR. EWALT) Should Google be required to	22	Q. Have you had any specialized training in
23	allow its customers to use Google Ad Manager in a way	23	understanding the intent behind company's actions?
24	that disadvantages AdX?	24	A. Yes.
25	MS. YOUNG: Objection; form.	25	Q. What is that training?
	Page 183		Page 185
	- 105 105-		1 age 183
1	A. The way that I look at it is the way that I	1	A. I did my Ph.D. at Stanford University, and
1 2		1 2	_
	A. The way that I look at it is the way that I		A. I did my Ph.D. at Stanford University, and part of my specialty was working on the understanding of the operation of organizations, including the
2	A. The way that I look at it is the way that I looked at all conduct in this case. This is not a	2	A. I did my Ph.D. at Stanford University, and part of my specialty was working on the understanding
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2 3 4 5	A. The way that I look at it is the way that I looked at all conduct in this case. This is not a requirements matter but an anticompetitive analysis matter.  Q. (BY MR. EWALT) Is it anticompetitive for Google to prevent its customers from using Google Ad Manager in a way that disadvantages AdX?	2 3 4 5	A. I did my Ph.D. at Stanford University, and part of my specialty was working on the understanding of the operation of organizations, including the actions that they would take and why they might take those actions.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. The way that I look at it is the way that I looked at all conduct in this case. This is not a requirements matter but an anticompetitive analysis matter.  Q. (BY MR. EWALT) Is it anticompetitive for Google to prevent its customers from using Google Ad Manager in a way that disadvantages AdX?  MS. YOUNG: Objection; form.  A. Because of Google's market power, yeah. Well the word "disadvantage" is the is the interesting one, but because of Google's market power imposing the restrictions that they did was anticompetitive.  Q. (BY MR. EWALT) Can you please turn to Paragraph 480 of your opening report.  A. Yes.  Q. The first sentence there reads: "In this section I analyze Google's intent in imposing UPR on publishers."  Do you see that?  A. Yes.  Q. What methodology did you use to reach conclusions about Google's intent?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I did my Ph.D. at Stanford University, and part of my specialty was working on the understanding of the operation of organizations, including the actions that they would take and why they might take those actions.  Q. And you studied incentives, correct?  A. Definitely studied incentives.  Q. And that the incentives would be what an economist would evaluate in order to understand what was motivating a company, correct?  MS. YOUNG: Objection; form.  A. That is one of the things.  The other things they would understand the constraints that the companies faced, the information or structure of the companies, the communication flows within a company.  These are all things that were very much impacted upon me during my Ph.D. studies and then throughout my career.  Q. (BY MR. EWALT) And you when you were studying at Stanford your advisor was Paul Milgrom?  A. Yes.

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	Page 186		Page 188
1	A. I he is he was a terrific supervisor	1	to weigh the evidence of their intent, you pay
2	and is a has done work that has been inspiring to	2	attention to a lot of those a lot of those voices.
3	me as an economist.	3	Q. (BY MR. EWALT) A lot of which voices?
4	Q. Do you consider him an expert in auction	4	A. The voices within the company.
5	design?	5	Q. The decision-makers or the
6	A. Yes.	6	nondecision-makers?
7	Q. Can you think of anyone with more expertise	7	A. Both.
8	in auction design than Paul Milgrom?	8	Q. And my question is: Which do you place
9	MS. YOUNG: Objection; form.	9	greater weight on, the decision-makers or the
10	A. There are a lot of people with a lot of	10	nondecision-makers?
11	expertise in auction design. There are depending	11	MS. YOUNG: Objection; form.
12	on the domain, some people have more expertise than	12	A. All other things being equal, depending on
13	Paul Milgrom. But in and in other domains, such as	13	the availability of evidence, I guess you would place
14	spectrum auctions, very few would have his expertise.	14	more decision weight on more sorry more
15	Q. (BY MR. EWALT) Let's go back to Paragraph 480	15	weight on the decision-makers than the not, if that
16	of your opening report where you talk about how you	16	was clear.
17	analyze Google's intent imposing UPR on publishers.	17	Q. (BY MR. EWALT) In your reports do you express
18	A. Yes.	18	any opinion as to whether UPR harmed competition in
19	Q. What do you mean by Google's intent?	19	the market for publisher ad servers?
20	A. What I mean is that when Google was thinking	20	MS. YOUNG: Objection; form.
21	about implementing UPR, what were the criteria that	21	You may answer.
22	they used to justify, as it was a restriction on their	22	A. I do not.
23	own customers, doing that.	23	Q. (BY MR. EWALT) In your reports do you express
24	Q. What do you mean by what "Google was	24	any opinion about whether UPR harmed competition in
25	thinking"?	25	the market for small advertiser buying tools?
	Page 187		Page 189
1	A. Well, obviously Google is made up of a lot of	1	A. I do not.
2	people. So what were the people inside of Google	2	Q. Can you please turn to Page 180 of your
3	thinking?	3	opening report.
4	What were their expressed reasoning as	4	Do you soo that Figure 17 is an avocent
5		4	Do you see that Figure 17 is an excerpt
1	to why they thought this would be a good policy for	5	from a Google presentation describing the impact on
6	to why they thought this would be a good policy for them.	-	
		5	from a Google presentation describing the impact on
6	them.	5	from a Google presentation describing the impact on publishers of the move to a unified first price
6 7	them.  Q. Do you need to know every employee's thinking	5 6 7	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?
6 7 8	them.  Q. Do you need to know every employee's thinking to reach conclusions about a company's intent?	5 6 7 8	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?  MS. YOUNG: Can you give me one second
6 7 8 9	them.  Q. Do you need to know every employee's thinking to reach conclusions about a company's intent?  MS. YOUNG: Objection; form.	5 6 7 8 9	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?  MS. YOUNG: Can you give me one second to catch up.
6 7 8 9 10	them.  Q. Do you need to know every employee's thinking to reach conclusions about a company's intent?  MS. YOUNG: Objection; form.  A. No. You need to you need to know a	5 6 7 8 9	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?  MS. YOUNG: Can you give me one second to catch up.  Page 180.
6 7 8 9 10 11	them.  Q. Do you need to know every employee's thinking to reach conclusions about a company's intent?  MS. YOUNG: Objection; form.  A. No. You need to you need to know a combination of there's a combination of	5 6 7 8 9 10	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?  MS. YOUNG: Can you give me one second to catch up.  Page 180.  A. Yes.
6 7 8 9 10 11 12	them.  Q. Do you need to know every employee's thinking to reach conclusions about a company's intent?  MS. YOUNG: Objection; form.  A. No. You need to you need to know a combination of there's a combination of considering, as an economist, the likely intent and	5 6 7 8 9 10 11 12	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?  MS. YOUNG: Can you give me one second to catch up.  Page 180.  A. Yes.  Q. (BY MR. EWALT) And the headline of that slide
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	them.  Q. Do you need to know every employee's thinking to reach conclusions about a company's intent?  MS. YOUNG: Objection; form.  A. No. You need to you need to know a combination of there's a combination of considering, as an economist, the likely intent and then looking at the evidence available to weigh it as to what is the plausibly plausible motivation.  Q. (BY MR. EWALT) In reaching conclusions about a company's intent, do you place greater weight on evidence of the views of employees with decision-making authority than on the views of other employees?  MS. YOUNG: Objection; form.  A. One of the things that is very interesting about how organizations work is that people with	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	from a Google presentation describing the impact on publishers of the move to a unified first price auction with UPR?  MS. YOUNG: Can you give me one second to catch up.  Page 180.  A. Yes.  Q. (BY MR. EWALT) And the headline of that slide is "Pubs Made More Money."  Do you see that?  A. Yes.  MS. YOUNG: Objection; form.  Sorry. Go ahead.  Q. (BY MR. EWALT) Did publishers make more money after Google moved to a unified first price auction with UPR?  A. I don't think you could draw that conclusion from that assertion.

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		I	
	Page 190	_	Page 192
1	were not happy with UPR being imposed on them from	1	decisions than they were previously making. And
2	which it is likely the case that it is harming their	2	that's all it did.
3	operations in some way.	3	And as a result of that, one can infer,
4	Q. But have you seen any evidence about the	4	as a matter of economics, that the publishers were
5	actual impact on publisher revenues of UPR?	5	worse off who who found that a binding constraint.
6	MS. YOUNG: Objection; form.	6	Q. (BY MR. EWALT) Do you know how many
7	A. In my rebuttal report I document some of	7	publishers found it a binding constraint?
8	these effects.	8	A. I don't have an exact number.
9	Q. (BY MR. EWALT) Did UPR lower price floors on	9	Q. Have you heard of more than five publishers
10	AdX?	10	complaining about UPR?
11	MS. YOUNG: Objection; form.	11	MS. YOUNG: Objection; form.
12	A. I don't know.	12	A. I document some publishers complaining about
13	Q. (BY MR. EWALT) Can you turn to Paragraph 491	13	UPR that we were able to receive evidence from in
14	to 496 of your opening report, please.	14	including publishers that complained directly to
15	A. Okay.	15	Google.
16	Q. Did UPR lower price floors on AdX?	16	Q. (BY MR. EWALT) How many?
17	A. Yes.	17	MS. YOUNG: Objection; form.
18	Q. Did lower price floors on AdX allow	18	A. I don't think it matters how many.
19	advertisers to pay less for impressions?	19	Q. (BY MR. EWALT) Okay. Have you expressed any
20	MS. YOUNG: Objection; form.	20	opinion about how Dynamic Allocation or, strike
21	A. Lower price floors on AdX, it's unknown when	21	that.
22	they are whether they are allowed advertiser to pay	22	Have you have you expressed any opinion
23	less because I'm sorry.	23	about whether Dynamic Allocation harmed competition in
24	The the lower price floors would	24	any market other than the market for ad exchanges?
25	allow more transactions to be completed.	25	A. I have expressed an opinion of how Google's
	Page 191		Page 193
1	Q. (BY MR. EWALT) And would the the fact that	1	implementation of Dynamic Allocation harmed market
2	more transactions could be completed benefit	2	harmed the market for ad exchanges, but not other, I
3	advertisers?	3	did not express opinions with respect to other
4	MS. YOUNG: Objection; form.	4	markets.
5	A. More transactions being completed could	5	Q. Was Dynamic Allocation a feature that
6	potentially benefit advertisers.	6	DoubleClick launched in 2007?
7	Q. (BY MR. EWALT) And would UPR allowing more	7	A. All right. You're testing
8	transactions to be completed also benefit publishers?	8	Q. All right.
9	MS. YOUNG: Objection; form.	9	A me on
10	A. That is unlikely given that UPR was to the	10	Q. Opening report
11	extent that it lowered price floors was something	11	(Speaking simultaneously.)
12	that the publishers would have chosen not to do.	12	A. But I'm sure you have
13	Q. (BY MR. EWALT) Well, you would agree that a	13	Q. (BY MR. EWALT) Opening report Paragraph 552.
14	publisher could make more revenue by selling more	14	A. Thank you.
15	inventory at a lower price than selling less inventory	15	Yes, I agree that in 2007 they had
16	at a higher price?	16	launched a feature they had called Dynamic Allocation.
17	That's a possibility it could work out that	17	Q. And so Dynamic Allocation was launched before
18	way, right?	18	Google acquired DoubleClick?
19	MS. YOUNG: Objection; form.	19	A. Well, the feature that they called it was,
20	A. No, not in this particular case. You have	20	yes.
21	to we're talking about an actual restriction on the	21	Q. When Dynamic Allocation was launched, were ad
22	publishers.	22	networks the primary way that advertisers purchased
23	A publisher wants to set a particular	23	display advertising?
24	price floor. If UPR lowered price floors, it was	24	MS. YOUNG: Objection; form.
25	because it forced publishers to make different	25	A. The ad networks was one of them that was
	-		

49 (Pages 190 - 193)

	THOTIL1 CO	11 1	
	Page 194		Page 196
1	still Direct Deals as well.	1	was anticompetitive for Google to have not modified
2	Q. (BY MR. EWALT) Did ad networks bid in real	2	Dynamic Allocation so that bids from rival non-AdX
3	time?	3	exchanges could compete in real time against AdX?
4	A. My understanding was that ad networks could	4	MS. YOUNG: Objection; form.
5	not do bid by in real time.	5	A. That wasn't my opinion.
6	Q. Did ad networks purchase display inventory	6	Q. (BY MR. EWALT) Did Header Bidding allow
7	through sequential process known as the Waterfall?  A. Yes.	7 8	participating ad exchanges to compete against each other in real time?
8	Q. Did the Waterfall lead to publishers missing	9	A. Header Bidding enabled enabled publishers
10	out on more valuable ad inventory allocation?	10	to solicit real-time bids from multiple exchangers, so
11	MS. YOUNG: Objection; form.	11	enabled that competition.
12	A. I think that's a reasonable conclusion.	12	Q. Did publisher start to experiment with Header
13	Q. (BY MR. EWALT) Was Dynamic Allocation an	13	Bidding around 2014?
14	improvement over the Waterfall?	14	A. Yes.
15	A. Enabling real-time bidding of that kind was,	15	MS. YOUNG: Objection; form.
16	I believe, a potential improvement over the Waterfall.	16	Go ahead.
17	Q. Did Dynamic Allocation help publishers make	17	A. Yes.
18	more money than they could make under the Waterfall?	18	Q. (BY MR. EWALT) Did Google modify Dynamic
19	MS. YOUNG: Objection; form.	19	Allocation once publishers started to experiment with
20	A. I believe that they did help some publishers	20	Header Bidding?
21	make more money than they could under the Waterfall.	21	A. Not initially, no.
22	Q. (BY MR. EWALT) When Dynamic Allocation	22	Q. What is your understanding of the term "Last
23	launched, were ad exchanges competing against each	23	Look"?
24	other in real time?	24	A. My understanding of the term "Last Look" is
25	A. No, they were not.	25	that after DFP has received bids from Header Bidding,
	Page 195		Page 197
1	Q. When did ad exchanges start competing against	1	that prior to soliciting those bids, or in this case
2	each other in real time?	2	offers of inventory and floors to to AdX, they are
3	A. I'm not sure that they ever did.	3	able to decide their own bid by for AdX.
4	Q. Okay. So is it your understanding that ad	4	Q. Did Last Look emerge from the interaction
5	exchanges do not compete against in each other in real	5	between Dynamic Allocation and Header Bidding?
6	time today?	6 7	A. Last Look emerged primarily from from
7 8	A. I sorry. Let me correct.  I thought you said "ad networks."	8	Dynamic Allocation, but it was a thing that was made apparent competitively through Header Bidding.
9	Q. Oh.	9	Q. Was Last Look a product feature that Google
10	A. Could you repeat that question again?	10	designed?
11	Q. I might have misspoken. I'll	11	MS. YOUNG: Objection; form.
12	A. No, I just no, that's what I heard so	12	A. No, Last Look was a a a constraint that
13	Q. Okay. When did ad exchanges start competing	13	arose out of the way Dynamic Allocation was set up and
14	against each other in real time?	14	Google's choices with regard to which exchange got the
15	A. I don't know the precise timing of entry of	15	Last Look.
16	all of the ad exchanges, so I don't have a date for	16	Q. (BY MR. EWALT) And it was also a consequence
17	you for that.	17	of the way that publishers chose to use Header
18	Q. Does early 2010 sound about right?	18	Bidding, correct?
19	A. That does sound about right.	19	MS. YOUNG: Objection; form.
20	Q. Did Google modify Dynamic Allocation once ad	20	A. Publishers only had only a certain set of
21	exchanges started competing against each other in real	21	choices they could engage in because of being forced
22	time?	22	to to utilize an approach such as Header Bidding.
23	MS. YOUNG: Objection; form.	23	And so those things interacted with one another.
1 -	A I 11 4 11 4 1	2.4	() (DV MD EWALT) If there had been no Headen
24 25	<ul><li>A. I cannot recall at the moment.</li><li>Q. (BY MR. EWALT) Is it your view that it it</li></ul>	24 25	Q. (BY MR. EWALT) If there had been no Header Bidding, could there have been a Last Look?

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	HIGHLY CO	NFI	DENTIAL
	Page 198		Page 200
1	MS. YOUNG: Objection; form.	1	MS. YOUNG: Objection; form.
2	A. I think in terms of the competitive	2	A. So in evaluating anticompetitive conduct and
3	consequences of Last Look, it wouldn't have been an	3	whether conduct is anticompetitive, the process that I
4	issue if there had been no Header Bidding.	4	outlined is the way to go.
5	Q. (BY MR. EWALT) After publishers started	5	It is also the case that in conducting
6	experimenting with Header Bidding, was it	6	that analysis, you want to understand potentially what
7	anticompetitive for Google not to modify bids	7	would have occurred in a competitive market.
8	excuse me, let me start over.	8	One way of doing so is to consider what
9	After publishers started experimenting with	9	effect the conduct was more broadly having on and off,
10	Header Bidding, was it anticompetitive for Google not	10	as you just suggested.
11	to modify DFP so that bids from rival exchanges could	11	Q. (BY MR. EWALT) So what I'm understanding you
12	compete in real time against AdX bids?	12	analysis to do is to investigate the difference that
13	MS. YOUNG: Objection; form.	13	it makes as to whether Google was vertically
14	A. My analysis was that had ad server market	14	integrated and it had monopoly power; is that right?
15	been a competitive market and Google not been	15	A. It when I I'm looking for anticompetitive
16	integrated into an exchange, that in that scenario, in	16	effect, it's primarily on the monopoly power side.
17	setting who it was that received which exchange	17	So to did Google have monopoly power
18	received the Last Look, Google would not have	18	or not have monopoly power? It is the counterfactual.
19	necessarily selected its own exchange and may have	19	Q. I see.
20	indeed allowed publishers to selected that exchange.	20	A. The vertical integration plays a role in that
21	Q. (BY MR. EWALT) So is that a way of saying	21	analysis.
22	your in your counterfactual world Google was not	22	Q. Okay. So if I understand this, then, your
23	vertically integrated and did not have monopoly power?	23	counterfactual world is one where Google is vertically
24	A. That's correct.	24	integrated but does not have monopoly power and
25	Q. Why did you pick that as your counterfactual	25	your and you compare that world to one in which
	Page 199		Page 201
1	world?	1	Google is both vertically integrated and has monopoly
2	A. Well, that is the way to consider these	2	power?
3	counterfactual worlds is if well, there's	3	A. Yes.
4	there's a couple of ways to it, but the general way to	4	Q. And how does that help you evaluate whether
5	do it is for these competitive anticompetitive	5	particular conduct is anticompetitive?
6	conduct cases is to assure that the firm engaging in	6	A. Well, it depends on the conduct.
7	the conduct did not have market power in the market	7	For instance, in a world where Google
8	for which the conduct was being imposed and then build	8	has no monopoly power, if there is a if it would
9	the analysis on top of that.	9	have still engaged in the conduct, one could not say
10	Q. Couldn't another counterfactual world be one	10	or conclude that the conduct was itself
11	where the firm existed in the same state yet simply	11	anticompetitive.
12	did not engage in the conduct that you're	12	MR. EWALT: Let's go off the record and
13	investigating?	13	take a
14	MS. YOUNG: Objection; form.	14	THE VIDEOGRAPHER: Now going off the
15	A. That's not the way as I outlined earlier and	15	record. The time is approximately 3:38.
16	how I evaluate these things that I conduct my	16	(Break from 3:38 p.m. to 4:09 p.m.)
17	analysis.	17	THE VIDEOGRAPHER: Back on the record.
18	Q. (BY MR. EWALT) Is that would it be an	18	The time is approximately 4:09.
19	inappropriate economic analysis to investigate	19	Q. (BY MR. EWALT) Professor Gans, when
20	strike that.	20	evaluating whether Google's conduct was
21	Would it be an inappropriate economic analysis	21	anticompetitive, did you compare outcomes in the
22	to evaluate whether conduct is anticompetitive by	22	actual world to outcomes in a counterfactual world?
23	comparing the world with the conduct occurring to a	23	MS. YOUNG: Objection; form.
24	counterfactual world in which the conduct did not	24	A. Yes.
/4	COMMOTIBLE IN CITE III WINCH HIC CONGULT UND HOU		11. 100.

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Q. (BY MR. EWALT) In your counterfactual world,

25

occur but no other changes existed?

25

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	Page 202		Page 204
1	was Google vertically integrated?	1	"no."
2	A. In in my analysis, depending on the	2	A. Okay.
3	conduct I was looking at because some of that conduct	3	Q. When you were considering whether Dynamic
4	involved market power across with two markets, I	4	Allocation and Bernanke
5	sometimes had Google vertically integrated and	5	A. You mean DRS.?
6	sometimes or depending on the I think actually I	6	Q. Yes. Thank you.
7	would have to answer this with respect to a specific	7	When you were considering whether
8	conduct.	8	Dynamic Revenue Share or Bernanke were
9	Q. Okay. When you were evaluating tying, did	9	anticompetitive, did your did you assume that in
10	you use a counterfactual world in which Google was	10	your counterfactual world Google was vertically
11	vertically integrated?	11	integrated?
12	MS. YOUNG: Objection; form.	12	MS. YOUNG: Objection; form.
13	A. Yes.	13	A. I I assume I the analysis would be the
14	Q. (BY MR. EWALT) When you were evaluating UPR,	14	same, whether they were vertically integrated or not.
15	did you use a counterfactual world in which Google was	15	So count that as assume they're
16	vertically integrated?	16	vertically integrated.
17	A. Both yes, and also considering one where it	17	Q. (BY MR. EWALT) Okay. When you were
18	wasn't.	18	evaluating whether Google's conduct was
19	Q. When you were evaluating Dynamic Allocation,	19	anticompetitive, in your counterfactual world did you
20	did you consider a counterfactual world in which	20	assume that Google did not have monopoly power?
21	Google was vertically integrated?	21	MS. YOUNG: Objection; form.
22	MS. YOUNG: Objection; form.	22	A. Yes, in
23	A. When I was analyzing Google's implementation	23	MS. YOUNG: Objection; form.
24	of Dynamic Allocation, like with the previous one, it	24	You may answer.
25	was both.	25	A. Yes, in the market for which the conduct
	Page 203		Page 205
1	Q. (BY MR. EWALT) And how about enhanced Dynamic	1	originated.
2	Allocation?	2	Q. (BY MR. EWALT) Okay. And is that answer the
3	When you were considering that did you	3	same with respect to all of the conduct that you
4	consider	4	evaluated in your reports?
5	A Til		
6	A. The same answer, yes.	5	A. Yes.
9	A. The same answer, yes.  MS. YOUNG: Let him finish his question	5 6	A. Yes.  MS. YOUNG: Objection; form.
7	• •	_	
	MS. YOUNG: Let him finish his question	6	MS. YOUNG: Objection; form.
7	MS. YOUNG: Let him finish his question before you answer.	6 7	MS. YOUNG: Objection; form.  A. Oh. Yes.
7 8	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same	6 7 8	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your
7 8 9	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other	6 7 8 9	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall
7 8 9 10	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?	6 7 8 9 10	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both
7 8 9 10 11	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.	6 7 8 9 10	MS. YOUNG: Objection; form.  A. Oh. Yes.  Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?
7 8 9 10 11 12	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.	6 7 8 9 10 11 12	MS. YOUNG: Objection; form.  A. Oh. Yes.  Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.
7 8 9 10 11 12 13	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and	6 7 8 9 10 11 12 13	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether
7 8 9 10 11 12 13 14	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not	6 7 8 9 10 11 12 13 14	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the
7 8 9 10 11 12 13 14 15	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market	6 7 8 9 10 11 12 13 14 15	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined.
7 8 9 10 11 12 13 14 15 16	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having	6 7 8 9 10 11 12 13 14 15	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined. Q. (BY MR. EWALT) In either of your reports did
7 8 9 10 11 12 13 14 15 16	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market but not but assume they were still vertically integrated.	6 7 8 9 10 11 12 13 14 15 16 17	MS. YOUNG: Objection; form.  A. Oh. Yes.  Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined.  Q. (BY MR. EWALT) In either of your reports did you express an opinion about the overall net effect of
7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market but not but assume they were still vertically integrated.  Q. (BY MR. EWALT) Did you assume they were not	6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined.  Q. (BY MR. EWALT) In either of your reports did you express an opinion about the overall net effect of Dynamic Allocation considering all of the effects on both advertisers and publishers?
7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market but not but assume they were still vertically integrated.	6 7 8 9 10 11 12 13 14 15 16 17 18	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined.  Q. (BY MR. EWALT) In either of your reports did you express an opinion about the overall net effect of Dynamic Allocation considering all of the effects on
7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market but not but assume they were still vertically integrated.  Q. (BY MR. EWALT) Did you assume they were not vertically integrated in the counterfactual world?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined.  Q. (BY MR. EWALT) In either of your reports did you express an opinion about the overall net effect of Dynamic Allocation considering all of the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market but not but assume they were still vertically integrated.  Q. (BY MR. EWALT) Did you assume they were not vertically integrated in the counterfactual world?  MS. YOUNG: Objection; form.  A. Not in the not for I did not need to do	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined.  Q. (BY MR. EWALT) In either of your reports did you express an opinion about the overall net effect of Dynamic Allocation considering all of the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No. I didn't analyze a world with or without
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. YOUNG: Let him finish his question before you answer.  Q. (BY MR. EWALT) Did you use the same counterfactual for all of the other conducts, other than tying?  MS. YOUNG: Objection; form.  A. Sorry, let me now work my way through it.  For the analysis of Project Bernanke and the analysis of Dynamic Revenue Sharing, I did not I considered what would happen without Google having market power, monopoly power in the requisite market but not but assume they were still vertically integrated.  Q. (BY MR. EWALT) Did you assume they were not vertically integrated in the counterfactual world?  MS. YOUNG: Objection; form.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. YOUNG: Objection; form.  A. Oh. Yes. Q. (BY MR. EWALT) Okay. In either of your reports did you express an opinion about the overall net effect of UPR considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form. A. No, I only engaged in an analysis of whether it was anticompetitive with respect to the the methodology the method I've already outlined. Q. (BY MR. EWALT) In either of your reports did you express an opinion about the overall net effect of Dynamic Allocation considering all of the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. No. I didn't analyze a world with or without Dynamic Allocation. Just a world with or without

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	Page 206		Page 208
1	you express an opinion about the overall net effect of	1	Q. Is it your opinion did you do you have
2	Enhanced Dynamic Allocation considering all the	2	an strike all that.
3	effects on both advertisers and publishers?	3	In your opinion, did Bernanke harm
4	MS. YOUNG: Objection; form.	4	competition in the market for ad exchanges?
5	A. No, I only considered the effects of Google's	5	MS. YOUNG: Objection; form.
6	implementation of Enhanced Dynamic Allocation compared	6	A. My opinion is that it yes, it harmed
7	to a counterfactual where it didn't implement it in	7	competition in the market for ad exchangers.
8	that way.	8	Q. (BY MR. EWALT) Okay. Have you expressed any
9	Q. (BY MR. EWALT) In either of your reports did	9	opinion in your reports about how enhanced Dynamic
10	you express an opinion about the overall net effect of	10	Allocation affected competition in any market other
11	line item capping considering all the effects on both	11	than the market for ad exchanges?
12	advertisers and publishers?	12	MS. YOUNG: Objection; form.
13	MS. YOUNG: Objection; form.	13	A. That was just a market for ad exchanges.
14	A. As before, I considered the impact of line	14	Q. (BY MR. EWALT) Does Enhanced Dynamic
15	item capping in a world with or without Google having	15	Allocation allow ad exchanges to compete for
16	market power in in in publisher ad servers.	16	impressions that otherwise would be allocated to
17	Q. (BY MR. EWALT) So is it fair to say that you	17	Direct Deals?
18	did not express an opinion in your reports about the	18	MS. YOUNG: Objection; form.
19	overall net effect of line item capping considering	19	A. Enhanced Dynamic Allocation allows for
20	all the effects on both advertisers and publishers?	20	additional functionality with respect to programatic
21	MS. YOUNG: Objection; form.	21	advertising, programatic guarantees for for for
22	A. My analysis only concerned the impact on the	22	publishers.
23	competition in ad exchangers as a result of Google's	23	So I I think the word "compete" is an
24	line item capping, which itself has effects on both	24	odd one. I would think it allows publishers
25	advertisers and publishers.	25	additional functionality to manage their programatic
	Page 207		Page 209
1	Page 207  Q. (BY MR. EWALT) In either of your reports, did	1	Page 209 and nonprogramatic advertising.
1 2	Q. (BY MR. EWALT) In either of your reports, did	1 2	and nonprogramatic advertising.
	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of		and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that
2	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both	2	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms
2 3	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both advertisers and publishers?	2 3	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms competition in the ad exchange market?
2 3 4	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.	2 3 4 5	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms  competition in the ad exchange market?  A. No. I did no analysis for further Enhanced
2 3 4 5	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both advertisers and publishers?	2 3 4	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms  competition in the ad exchange market?  A. No. I did no analysis for further Enhanced  Dynamic Allocation harmed competition in any market.
2 3 4 5 6	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. I considered the impact of Bernanke on on competition on on competition in the ad server	2 3 4 5 6 7	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms  competition in the ad exchange market?  A. No. I did no analysis for further Enhanced  Dynamic Allocation harmed competition in any market.  I only examined Google's implementation
2 3 4 5 6 7	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. I considered the impact of Bernanke on on competition on on competition in the ad server market, and, with respect to that, all of its	2 3 4 5 6	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms  competition in the ad exchange market?  A. No. I did no analysis for further Enhanced  Dynamic Allocation harmed competition in any market.  I only examined Google's implementation  of Enhanced Dynamic Allocation and whether it harmed
2 3 4 5 6 7 8 9	Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of Bernanke considering all the effects on both advertisers and publishers?  MS. YOUNG: Objection; form.  A. I considered the impact of Bernanke on on competition on on competition in the ad server market, and, with respect to that, all of its consequences on on customers who interacted with	2 3 4 5 6 7 8 9	and nonprogramatic advertising.  Q. (BY MR. EWALT) Is it your opinion that  Dynamic that Enhanced Dynamic Allocation harms competition in the ad exchange market?  A. No. I did no analysis for further Enhanced  Dynamic Allocation harmed competition in any market.  I only examined Google's implementation of Enhanced Dynamic Allocation and whether it harmed competition.
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18 where UPR was not imposed. That is, as it was prior 18 server ad publisher ad server product. T	17	A. I evaluated the existence of UPR in a world	17	price floors within the context of Google's ad
	18	where UPR was not imposed. That is, as it was prior	18	server ad publisher ad server product. The conduct
	19		19	was the imposition of UPR. Not having the conduct was
20 Q. So your answer for UPR was a little bit 20 not having UPR.	20		20	
21 different than the answer for Enhanced Dynamic 21 With respect to conducts, so that	21	different than the answer for Enhanced Dynamic	21	With respect to conducts, so that I'm
	22	Allocation and Dynamic Allocation.	22	clear, are associated with Dynamic Allocation.

54 (Pages 210 - 213)

Dynamic Allocation itself was a program which allowed

evolution over the Waterfall. That is not the conduct

for real-time bidding to be done, which was an

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25

evaluating and looking at.

A. It's no different. If you look in my report,

both of them, I'm very clear on the conducts that I am

23

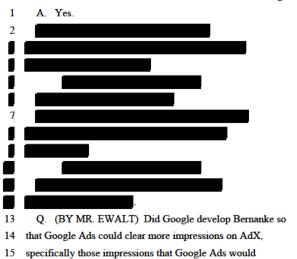
24

25

	THOTIL1 CO		
	Page 214		Page 216
1	that I evaluate.	1	Those are the conducts I evaluated.
2	The conduct was when it implemented	2	Q. Thank you very much. That was helpful.
3	Dynamic Allocation and you can see this in 570 on	3	So let's talk about DA and EDA again.
4	my opening report they overrode any publishers	4	DA first.
5	they they made a choice that AdX would have a Last	5	So in if I understand this correctly,
6	Look, that AdX would have a Last Look in that.	6	you did not investigate whether DA in and of itself
7	And they did the same thing with	7	harmed competition in the ad exchange market; is that
8	Enhanced Dynamic Allocation. That was its	8	right?
9	implementation, and its implementation was the conduct	9	MS. YOUNG: Objection; form.
10	that I analyzed.	10	A. That is right. I investigated the
11	Just to be clear, if Google did not own	11	implementation of DA that Google chose versus other
12	AdX, one can imagine that it could integrate with a	12	implementations it might have chosen.
13	non-Google exchange.	13	Q. (BY MR. EWALT) And you reached the conclusion
14	AdX, not owned by Google or any other	14	that Google harmed competition by implementing DA in
15	non-Google exchange, to give that Last Look.	15	such a way that AdX received a Last Look.
16	And it could have, depending on choices	16	Is that fair?
17	and other competitive positioning, given that choice	17	A. It it did because but it was able to
18	of who gets the Last Look to the publisher who's the	18	favor its own vertically integrated ad exchange via
19	customer of the ad server.	19	that choice, which had it not had market power in the
20	Let's continue on.	20	ad server market, it wouldn't have played out that
21	Google engaged in conduct that capped	21	way.
22	line items in the publisher ad server. The conduct is	22	Q. If Google had implemented Dynamic Allocation
23	the cap. Not having the conduct would have no cap.	23	in such a way that a different exchange received the
24	Google redacted data. It redacted data	24	Last Look, would that have harmed competition?
25	in its ad server products. Had it not that was the	25	MS. YOUNG: Objection; form.
	Page 215		Page 217
1	conduct, the redaction. Not not redacting would be	1	A. If a different exchange that was not owned by
2	not doing the conduct.	2	Google had received the Last Look and that was just an
3	With Bernanke, there were two versions	3	independent choice of Google, then that would not have
4	of Bernanke. There was an initial version of Bernanke	4	harmed competition.
5	by which Google lowered the take rate on some some	5	Q. (BY MR. EWALT) With respect to EDA, I believe
6	advertiser some advertiser transactions in order to	6	you said that you did not reach an opinion that EDA
7	see them more likely to pass through Google's stack.	7	harmed competition on its own.
8	The second prong of Bernanke was to bank	8	Is that fair?
9	and claw back through higher take rates. It's	9	A. That is correct.
10	calculated loss and I'm putting that in quotes, I	10	Q. You did reach a conclusion that the way that
11	don't know how to say it any other way from that.	11	Google implemented EDA harmed competition; is that
12	The conduct that I analyzed is the	12	right?
13	conduct of Google engaging in the high increase in	13	A. I did. It was a continuation of the way they
14	take rate to advertisers as compared to the conduct	14	had implemented DA.
15	that just involved the decrease in take rate prong of	15	Q. Is there anything different about the
16	Bernanke.	16	implementation of EDA as compared to the
17	Similarly, with Dynamic Revenue Sharing	17	implementation of DA that affected your evaluation as
18	also had those two prongs.	18	to whether EDA harmed competition?
19	And the conduct that I investigated was	19	MS. YOUNG: Objection; form.
20	the conduct with the first prong that allowed AdX's	20	A. No.
21	take rate to be lower for some transactions as	21	Q. (BY MR. EWALT) Talk about Bernanke next.
22	compared to a world with the second prong where AdX	22	Am I correct well, you you talked about
23	where where Google increased the take rate on	23	there are two prongs for Bernanke, right?
24	certain transactions and did so with a view to clawing	24	A. Yes.
25	back the losses on the first prong.	25	Q. Did you reach a conclusion as to whether

55 (Pages 214 - 217)

	Page 218		Page 220
1	Bernanke with both prongs harmed competition?	1	due to high publisher floor prices?
2	A. Relative to Bernanke with no Bernanke at all?	2	MS. YOUNG: Objection; form.
3	Q. Yes.	3	A. It developed Bernanke to sell impressions
4	A. I did not reach a conclusion on that.	4	that otherwise would have not been sold due to high
5	Q. With respect to DRS, you also said there were	5	publisher floor prices on AdX.
6	two prongs.	6	Q. (BY MR. EWALT) Would you please turn to
7	Did you reach a conclusion as to whether	7	Paragraph 740 to 743 of your opening report.
8	DRS with two prongs harmed competition relative to a	8	A. Yes.
9	world with no DRS?	9	Q. And in those paragraphs you describe three
10	A. I	10	scenarios where Bernanke could impact AdX auctions?
11	MS. YOUNG: Objection; form.	11	A. Yes.
12	Go ahead.	12	Q. The first scenario is when Google Ads submits
13	A. I did not.	13	the highest and second highest bids into the AdX
14	Q. (BY MR. EWALT) Now, there were actually three	14	auction, right?
15	versions of DRS.	15	A. Yes.
16	Do you remember that?	16	Q. In that first scenario, does Bernanke have
17	A. Yes, there was this final truthful DRS which	17	any effect on rival ad-buying tools?
18	retains both of the prongs of DRS Version 2.	18	A. No.
19	Q. Did you reach any conclusion as to whether	19	Q. Second scenario is when no buyer submits a
20	truthful DRS harmed competition?	20	bid above the AdX floor price without Bernanke, but
21	A. Yes. Relative to DRS Version 1.	21	Bernanke allows Google Ads to bid above the floor
22	Q. Okay. Could you turn to Paragraph 738 of	22	price and win the impression.
23	your opening report, please?	23	Is that fair?
24	Could you please review that, and let me	24	A. Yes.
25	know when you've finished.	25	Q. In the second scenario, does Bernanke have
	Page 219		Page 221



- 16 have lost due to high publisher floor prices?
- 17 MS. YOUNG: Objection; form.
- 18 Yes, that's what it said it was trying to do.
- 19 Q. (BY MR. EWALT) Did Google develop Bernanke to
- 20 improve the match rate on AdX?
- 21 A. It was trying to improve and increase the
- number of transactions going through AdX as compared
- 23 to elsewhere.
- Q. Did Google develop Bernanke to help sell
  - impressions that otherwise would not have been sold

any effect on rival ad-buying tools?

2 A. No.

3 Q. In the second scenario, does Bernanke allow

transactions to clear that otherwise would not have

5 cleared?

A. Yes.

Q. In the second scenario, does Bernanke expand

the output of transactions? 8

9 MS. YOUNG: Objection; form.

10 Go ahead.

11

12 Q. (BY MR. EWALT) Do publishers and advertisers

benefit from Bernanke expanding output in the second 13

14 scenario?

17

15 MS. YOUNG: Objection; form.

16 A. Well, Google is lowering its price so that

they potentially benefit.

Q. (BY MR. EWALT) The third scenario is when a 18

19 rival buying tool would have won the impression

without Bernanke but Bernanke allows Google Ads to win 20

21 instead; is that right?

22 A. That's right.

23 Q. And this third scenario is the only one where

24 Bernanke could harm rival buying tools.

Is that fair?

56 (Pages 218 - 221)

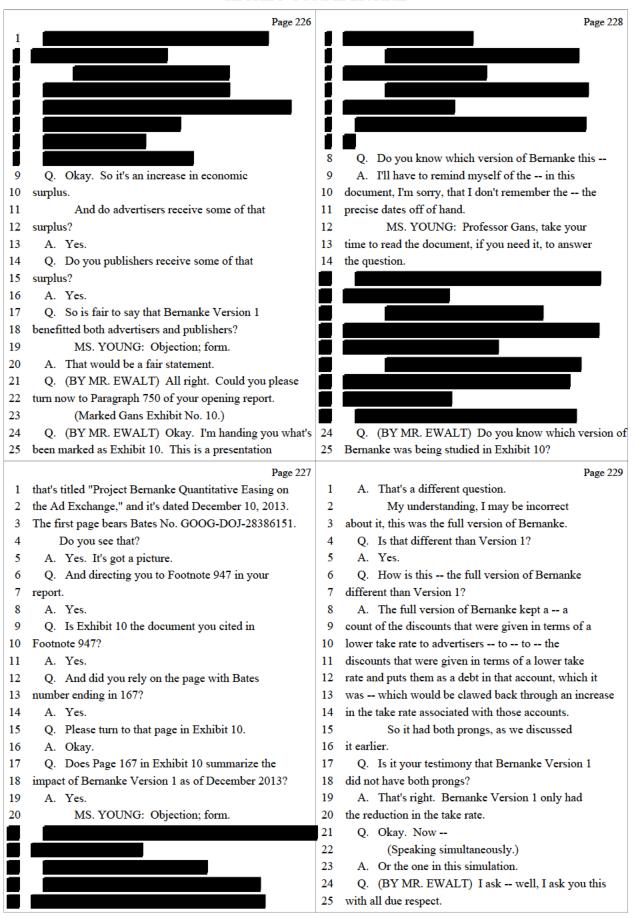
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25

#### HIGHLY CONFIDENTIAL Page 222 Page 224 1 A. That is --MS. YOUNG: Objection; form. 2 3 Go ahead 4 A. That is correct. 5 Q. (BY MR. EWALT) Some of those rival buying tools are buying tools for large advertisers, right? 7 MS. YOUNG: Objection; form. 8 A. It's possible. 8 Q. Fair. Okay. 9 9 And so can we agree that we'll just call Q. (BY MR. EWALT) In your reports, do you 10 express an opinion on how commonly each of the three 10 it Bernanke Version 1? We can refer to that as Bernanke and then we can refer to Global Bernanke scenarios occurred? 11 11 12 MS. YOUNG: Objection; form. 12 separately. 13 A. Well, it's not Global Bernanke. It's 13 A. I do not. Bernanke Version 2, and then Global Bernanke was 14 Q. (BY MR. EWALT) Do you know whether the second 14 scenario is more common than the third scenario? 15 another thing entirely. 15 16 MS. YOUNG: Objection; form. Q. And so --16 17 A. There was another -- it was another --17 A. I do not know the distribution of the 18 18 Q. Iteration? scenarios 19 (Marked Gans Exhibit No. 9.) 19 A. Sorry. Yeah. Q. (BY MR. EWALT) I'm handing you a document 20 20 that's been marked as Exhibit 9. First page bears Bates No. GOOG-DOJ-AT-02513569 23 Do you see that? 24 A. Yes. 25 Q. I would like to direct your attention to Page 225 Paragraph 746 in your opening report, in particular to Footnote 942. 2 3 A. Yes. MS. YOUNG: You said 942? 4 5 MR. EWALT: Yes. 6 MS. YOUNG: Okay. 7 Q. (BY MR. EWALT) Is Exhibit 9 the document you cited in Footnote 942 in your opening report? 8 9 A. Yes. 10 Q. Did you rely on the page with Bates number 11 ending in 573? 12 A. I believe so. Q. Would you please turn to that page in 14 Exhibit 6. 15 A. Yes. 16 Q. Does Page 573 in Exhibit 6 summarize the results of a simulation of Bernanke that was run in June 2013? 18 19 A. Yes.

57 (Pages 222 - 225)

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58 (Pages 226 - 229)

Page 230 Page 232 1 Are you aware that prior to Bernanke there was a program called buy-side DRS? A. Yes. I see. Right. So according to your Exhibit 10, did Bernanke Q. And is buy-side DRS the program that only benefit both advertisers and publishers? reduced the margin but did not have a debt account? MS. YOUNG: Objection; form. 6 Well, Bernanke wasn't a conduct I evaluated, A. Right at the moment I have -- I would have to review my report again to remember which version was as I already mentioned. 8 under which name, which is what I am struggling with 8 But in a world with and out -- with and 9 9 without Bernanke as in those experiments, one effect right here. 10 Q. Okay. So is it possible that Bernanke 10 of it was a short-run effect of increasing the revenue Version 1 also had a debt account? 11 11 of publishers. A. I would have -- I would -- I would need some 12 Q. (BY MR. EWALT) And advertisers? time to refresh my memory regarding the exhibits and 13 MS. YOUNG: Objection; form. 14 Potentially of advertisers as well. 14 my report to --15 15 MR. EWALT: Let's go off the record. Q. Okay. A. -- to confirm with certainty. 16 16 THE VIDEOGRAPHER: This is now the end 17 Q. Okay. Well, let's turn back to Exhibit 10, 17 of Video 5 of Joshua Gans. We're off the record. The 18 Page 167. 18 time is 4:59. 19 A. Yes. 19 (Break from 4:59 p.m. to 5:18 p.m.) 20 20 THE VIDEOGRAPHER: Now back on the 21 record. Video 6 of Joshua Gans. The time is approximately 5:18. 22 23 Q. (BY MR. EWALT) Professor Gans, during the 24 break, did you discuss the substance of this case with 25 counsel? Page 231 Page 233 MS. YOUNG: Same instruction as before. 1 2 I direct the witness not to answer pursuant to the 3 expert stipulation entered by the Court in this case. Q. (BY MR. EWALT) Based on the instruction not 4 to answer, we will move on. 6 Did DRS Version 1 harm competition in any 7 market? 8 I didn't analyze whether it did harm 9 competition, but my analysis -- yeah. I didn't analyze whether it did harm competition. 10 Q. Could you please turn to Paragraph 104 of 11 12 your rebuttal report. 13 14 Q. And that paragraph begins: "Professor 15 Q. And that increase in advertiser spending was Milgrom, however, provides an illustration of why this 16 due to Bernanke allowing more matches between 16 approach is not appropriate in this case in his 17 publishers and advertisers increasing output, correct? evaluation of one of the conducts investigated in this 17 18 A. What you're asking me is about -- potentially 18 matter, Sell-Side Dynamic Revenue Sharing, or more 19 about a counterfactual, which was not the specifically DRS v1. He points to a Google evaluation of the impact of the conduct. counterfactual I analyzed. It's with and without Bernanke as in these experiments. 22 But with that caveat, yes. Recall that I regarded this particular

59 (Pages 230 - 233)

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# HIGHLY CONFIDENTIAL

	Page 234		Page 23
1	procedure as procompetitive."	1	Q. Does Footnote 1030 cite to Exhibit 11?
2	Do you see that?	2	A. Yes.
3	A. Yes.	3	Q. And in particular you cite Page 467 of
4	Q. Was DRS Version 1 procompetitive?	4	Exhibit 11; is that correct?
5	A. In a sense that it	5	A. Yes.
6	MS. YOUNG: Objection; form.	6	Q. And please turn to Page 467.
7	Sorry. Go ahead and answer.	7	A. Okay.
8	A. In a sense that it involved Google reducing	8	Q. And that page states that DRS consistently
9	its take rate only, it it it could be regarded	9	makes publishers more money.
10	as as procompetitive or welfare enhancing.	10	Do you see that?
11	Q. (BY MR. EWALT) Is there any sense in which	11	A. I see that it says that.
12	DRS Version 1 was not welfare enhancing?	12	Q. And according to Exhibit 11, does DRS
13	A. I do not I did not find any sense that it	13	Version 2 consistently make publishers more money?
14	wasn't.	14	A. As compared to no DRS.
15	Q. Would you please turn to Paragraph 809 of	15	Q. Would you please turn to Page 469 in
16	your opening report.	16	Exhibit 11?
17	The first sentence of that paragraph	17	A. Yes.
18	reads	18	Q. You see the top of that page defines
19	MS. YOUNG: Can you give me one second?	19	publisher revenue as the some of AdX revenue and
20	I'm going to it's taking me a little while to flip	20	third-party network revenue?
21	to it.	21	A. Yes.
22	Sorry. Go ahead.	22	Q. And you understand that third-party network
23	Q. (BY MR. EWALT) First sentence of	23	revenue refers to rival ad exchanges and ad networks
24	Paragraph 809 of your opening report reads: "The	24	that would compete against AdX through remnant items.
25	combined effects of Last Look in DRS v2 led to revenue	25	A. Yes.
	Page 235		Page 23
1	losses for the publishers for the following reasons."	1	MS. YOUNG: Objection; form.
2	Do you see that?	2	Sorry. Go ahead.
3	A. Yes.	3	
4	Q. In your reports, do you express any opinion		
5	that the combined effect of Last Look in tDRS led to		
6	revenue losses for publishers?		
7	A. I cannot whether I analyzed that particular		
8	combination in my reports.		
9	Q. Did in either of your reports, did you		
10	express an opinion as to whether tDRS harmed		
11	competition as compared to a world with no DRS?		
12	MS. YOUNG: Objection; form.		
13	A. I did not.		
14	(Marked Gans Exhibit No. 11.)		
15	Q. (BY MR. EWALT) I'm handing you what's been		
16	marked as Exhibit 11. It's a document titled "Overall		
17	Pub Yields with DRS v2." First page bears Bates		
	number GOOG-NE-13234466.		
18	Do you see that?		
18 19	Do you see that:	I	Q. (BY MR. EWALT) And is an output increase
	A. Yes.	20	Q. (DI MILL DIVIDI) IMOIS IN CORPOR METORS
19		20 21	procompetitive?
19 20	A. Yes.		
19 20 21	A. Yes.  Q. Would you please turn to Paragraph 805 of	21	procompetitive?
19 20 21 22	A. Yes.  Q. Would you please turn to Paragraph 805 of your opening report, and actually take a look at	21 22	procompetitive?  MS. YOUNG: Objection; form.

60 (Pages 234 - 237)

	HIGHLY COI	NFI	DENTIAL
	Page 238		Page 240
1	DRS considering all the effects on both advertisers	1	Q. You understand that Google is referring to
2	and publishers?	2	additional infrastructure costs associated with line
3	MS. YOUNG: Objection; form.	3	items, right?
4	A. No, I didn't, because the conduct I evaluated	4	A. Oh.
5	was not that.	5	MS. YOUNG: Objection; form.
6	Q. (BY MR. EWALT) All right. Let's talk about	6	A. I have to admit, it doesn't plainly say
7	line item capping.	7	anything on that particular slide.
8	A. Saving the best until last.	8	Okay. Yes.
9	Okay. Let's go.	9	Q. (BY MR. EWALT) So do you understand that
10	Q. Have you seen evidence that publishers using	10	Google is referring to additional infrastructure costs
11	large numbers of active line items impose costs on	11	associated with line items on Page 586 of Exhibit 12?
12	Google?	12	MS. YOUNG: Objection; form.
13	MS. YOUNG: Objection; form.	13	A. I do.
14	A. I've seen I recall claims made by	14	Q. (BY MR. EWALT) Was limiting the number of
15	Professor Baye to that effect.	15	line items a way for Google to control those costs?
16	(Marked Gans Exhibit No. 12.)	16	MS. YOUNG: Objection; form.
17	Q. (BY MR. EWALT) I'm handing you what's been	17	A. What this says is not allowing every
18	marked as Exhibit 12. It's a document titled	18	publisher to increase their line items or to no.
19	"PRD/Strat Review: Network Health." First page bears	19	Not allowing a situation where every
20	Bates No. GOOG-DOJ-06875572.	20	publisher could increase would increase its line
21	Do you see that?	21	items would result in costs for Google. Although that
22	A. I do.	22	is different from providing the means for some
23	Q. Would you please turn to Paragraph 370 of	23	publishers to do so.
24	your rebuttal report?	24	The increment seemed it could be
25	A. Of the rebuttal report.	25	referring to a different calculation.
	Page 239		Page 241
1	Oh, good grief.	1	Q. (BY MR. EWALT) Okay. You can put that aside.
2	Yeah.	2	Could you please turn to Paragraph 649 in your
3	<ul> <li>Q. All right. I want to direct your attention</li> </ul>	3	opening report?
4	to Footnote 647.	4	A. Yes.
5	A. Yes.	5	Q. One moment, please.
6	Q. Is Exhibit 12 the document you cited in	6	(Marked Gans Exhibit No. 13.)
7	Footnote 647 of your rebuttal report?	7	A. Exhibit incoming.
8	A. Yes.	8	Q. (BY MR. EWALT) Indeed.
9	Q. Would you please turn to page ending in 686.	9	I'm handing you what's been marked as
10	A. 686?	10	Exhibit 13. This is an e-mail dated October 8, 2018.
11	Q. Maybe 586.	11	The first page bears Bates No. GOOG-DOJ-15127000.
12	A. Okay.	12	Do you see that?
13	Q. No, might be 686.	13	A. Yes.
14	A. I don't I don't have 686.	14	Q. And direct your attention to Footnote 827 of
15	Q. I don't see 686 either.	15	your opening report.
16	Give me a second here.	16	A. Yes.
17	Yes, would you please turn to the page	17	Q. Is Exhibit 13 a document that's cited in
18	in Exhibit 12 with Bates number ending in 586?	18	Footnote 827?
19	A. Yes.	19	A. Yes.
		20	Q. And you've reviewed Exhibit 13 before?
		21	A. Yes.
		22	Q. Do you recognize Exhibit 13 as an e-mail
		23	thread among Google employees related to line item
		24	capping?
		25	A. Yes.

61 (Pages 238 - 241)

	HIGHLY CO.	NLI	DENTIAL
	Page 242		Page 244
1	Q. Would you please turn to the page in	1	Q. And Mr. Korula was agreeing with Mr.
2	Exhibit 13 with Bates number ending in 001.	2	that Google's goal with line item caps was not to stop
3	A. Yes.	3	Header Bidding, right?
4	Q. Towards the bottom of that page, do you see	4	MS. YOUNG: Objection; form.
5	an e-mail from	5	And, Professor Gans, if you need to read
6	A. Yes.	6	the entire e-mail to answer any questions about this
7	Q. And Mr. is a senior engineer at	7	multipage e-mail, please do so.
8	Google?	8	MR. EWALT: All right. I'll ask the
9	A. I don't recall.	9	counsel not coach the witness.
10	Q. Does that e-mail continue on to the page	10	A. Okay. Could you ask the question again.
11	ending in 002?	11	Q. (BY MR. EWALT) Was Mr. Korula agreeing with
12	A. Yes.	12	Mr. that Google's goal with line item caps
13	Q. And at the top of the page 002 there's a	13	was not to stop Header Bidding?
14	section titled "Header Bidding Friction."	14	MS. YOUNG: Objection; form.
15	Do you see that?	15	A. I think he was agreeing with him that a way
16	A. Yes.	16	to sell the decision to put in line items caps was
17	Q. Mr. wrote: "The goal is not to stop	17	to was to that they didn't want to encourage
18	Header Bidding. It is to introduce friction (or	18	header greater Header Bidding because of the
19	costs) that make our programatic offerings more	19	specific costs that Header Bidding imposes on Google.
20	compelling. The way our system was set up makes it	20	Q. (BY MR. EWALT) Google was looking to make
21	free for pubs to use Header Bidding but costs us	21	sure that it wasn't stuck absorbing as much of the
22	serving resources (esp for SB and premium pubs with	22	costs of Header Bidding as publishers chose to impose.
23	lower negotiated rates). This friction is an	23	Is that fair?
24	important part of ensuring that the monetization tools	24	MS. YOUNG: Objection; form.
25	the pub has available are not subsidized by us to our	25	A. Well, I think if you look at this message in
	Page 243		Page 245
1	detriment."	1	the context of the e-mail thread that was preceding
2	Do you see that?	2	it, I think there was the kind of internal debate and
3	A. Yes.	3	discussion that was going on that we discussed earlier
4	Q. And returning to the first page of	4	in in the day in this thing.
5	Exhibit 13, there's an e-mail response from Nitish	5	And so a plain, out-of-context reading
6	Korula.	6	of that particular statement of a goal should not be
7	Do you see that?	7	done.
8	A. Yes.	8	Q. (BY MR. EWALT) You shouldn't read the e-mails
9	Q. Do you know whether Mr. Korula was another	9	written by senior Google engineers to reflect their
10	senior engineer at Google?	10	actual intent at the time they wrote it?
11	A. I do not recall.	11	MS. YOUNG: Objection; form.
12	Q. I would like to direct your attention to	12	A. Not without taking into account what the
13	Point 4 in Mr. Korula's e-mail.	13	earlier e-mail threads may have said with regard to
14	A. Yes.	14	the context. But even in the plain reading of it, I
15	Q. And he wrote: "On friction, I think Glenn	15	don't think this makes any difference for any
16	nailed it. The goal is not to stop Header Bidding.	16	conclusions that I reached.
17	The way our system was set up makes it free for pubs	17	Q. (BY MR. EWALT) Okay. Would you please take a
18	to use and expand Header Bidding but costs us serving	18	look at Page 140 of your rebuttal report.
19	resources and reporting resources and troubleshooting,	19	A. Yes.
20	et cetera. Even if we can't eliminate it, why should	20	MS. YOUNG: Page 140?
21	we subsidize publishers doing something suboptimal?	21	MR. EWALT: Yes.
22	That is also bad for users and it introduces more	22	Q. (BY MR. EWALT) All right. And do you see
23	latency, et cetera."	23	that there that we're in the section dealing with
24	Do you see that?	24	line item capping of your rebuttal report?
25	A. Yes.	25	A. Yes.
		1	

62 (Pages 242 - 245)

١.	Page 246		Page 248
1	Q. I want to direct your attention to	1	and reducing their line items would have only had a
2	Paragraph 370, and specifically to the second to last	2	limited impact on costs"
3	sentence which appears on Page 142.	3	We could review that if you wish. I
4	A. Yes.	4	think it's one of ours ones already we've
5	Q. And do you see where you wrote: "What is at	5	discussed.
6	the heart of this is the evidence regarding Google's	6	"and that Google could also mitigate
7	intent"?	7	any cost increase by adapting its pricing or not
8	A. Yes.	8	making money on a pub for a strategic reason since it
9	Q. And were you referring to evidence of	9	was not a lot of money."
10	Google's intent related to line item capping?	10	In other words, Google, to the extent
11	A. Yes.	11	that publishers valued increased line items, didn't
12	Q. And in Exhibit 13 we saw an internal	12	have to say no more line items. What they could say
13	discussion with Mr. and Mr. Korula agreeing	13	is, This costs us money, here's what you, publisher,
14	that Google's goal was not to stop Header Bidding,	14	are going to have to pay if you wish to have line
15	right?	15	items.
16	A. We saw	16	Yet it never offered any publisher that,
17	MS. YOUNG: Objection; form.	17	to my knowledge.
18	Go ahead.	18	"So while Google acknowledged that these
19	A. That was part of this internal discussion,	19	were all options to solve this new industry trend, I
20	yes.	20	showed in my opening report that Google regularly
21	Q. (BY MR. EWALT) Turning back to Paragraph 370	, 21	denied publishers' request for exemptions to allow
22	the final sentence reads: "The analysis in my initial	22	increases in line items.
23	report demonstrated that Google had incentives to cap	23	"Google's line items limits on line
24	line items, even if it was costless to expand them,	24	items were 'unethical - because it was forcing out
25	which is consistent with the hypothesis that Google's	25	competition (no matter the good intentions and the
	Page 247		Page 249
	5		
1	choices were an abuse of its monopoly power."	1	reasonable impact on system stability) at the end of
1 2	choices were an abuse of its monopoly power."  Do you see that?	1 2	reasonable impact on system stability) at the end of the day was forcing them to change their business
	choices were an abuse of its monopoly power."  Do you see that?  A. Yes.		the day was forcing them to change their business
2	Do you see that? A. Yes.	2	the day was forcing them to change their business strategy kicking out HBs, head of bidding."
2 3	Do you see that?	2 3	the day was forcing them to change their business strategy kicking out HBs, head of bidding." Quoting a statement from discussion with
2 3 4	Do you see that?  A. Yes.  Q. Was it costless for Google to expand limits	2 3 4	the day was forcing them to change their business strategy kicking out HBs, head of bidding."  Quoting a statement from discussion with The Washington Post.
2 3 4 5 6	Do you see that?  A. Yes.  Q. Was it costless for Google to expand limits on line items?  A. You'll recall that we had an earlier	2 3 4 5 6	the day was forcing them to change their business strategy kicking out HBs, head of bidding."  Quoting a statement from discussion with The Washington Post.  "I note that even if there were such
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2 3 4 5 6	Do you see that?  A. Yes.  Q. Was it costless for Google to expand limits on line items?  A. You'll recall that we had an earlier	2 3 4 5 6 7	the day was forcing them to change their business strategy kicking out HBs, head of bidding."  Quoting a statement from discussion with The Washington Post.  "I note that even if there were such costs, Google, given its monopoly power and integration, would not have an incentive to make the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that?  A. Yes.  Q. Was it costless for Google to expand limits on line items?  A. You'll recall that we had an earlier discussion regarding the costs involved in conduct.  And I said that if the costs were that there were no costs, that makes one conclusion clear. If there were very significant costs, you reach a different conclusion.  When there are only modest costs, it is still the case that you would could see the strategy as being an abuse of monopoly power.  Q. How can you tell how much cost how significant the costs are that Google would have to absorb before deciding to avoid the costs would not be anticompetitive?  A. So let's look at the context of this entire paragraph that is done here. Let me read it to you.  "So Professors Baye and Milgrom argue that line items were capped because it was costly for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the day was forcing them to change their business strategy kicking out HBs, head of bidding."  Quoting a statement from discussion with The Washington Post.  "I note that even if there were such costs, Google, given its monopoly power and integration, would not have an incentive to make the optimal trade off. Professor Milgrom, as he consistently does throughout his analysis, fails to consider Google's broad multimarket incentives in making these decisions."  And then we quoted the last two ones before.  So you'll see there that captures what I've already just described to you.  Q. You're aware that Google granted exceptions to the line item cap to some publishers?  A. Yes.  Q. And did Google charge those publishers additional fees when they granted the exceptions to the line item cap?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that?  A. Yes.  Q. Was it costless for Google to expand limits on line items?  A. You'll recall that we had an earlier discussion regarding the costs involved in conduct.  And I said that if the costs were that there were no costs, that makes one conclusion clear. If there were very significant costs, you reach a different conclusion.  When there are only modest costs, it is still the case that you would could see the strategy as being an abuse of monopoly power.  Q. How can you tell how much cost how significant the costs are that Google would have to absorb before deciding to avoid the costs would not be anticompetitive?  A. So let's look at the context of this entire paragraph that is done here. Let me read it to you.  "So Professors Baye and Milgrom argue that line items were capped because it was costly for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the day was forcing them to change their business strategy kicking out HBs, head of bidding."  Quoting a statement from discussion with The Washington Post.  "I note that even if there were such costs, Google, given its monopoly power and integration, would not have an incentive to make the optimal trade off. Professor Milgrom, as he consistently does throughout his analysis, fails to consider Google's broad multimarket incentives in making these decisions."  And then we quoted the last two ones before.  So you'll see there that captures what I've already just described to you.  Q. You're aware that Google granted exceptions to the line item cap to some publishers?  A. Yes.  Q. And did Google charge those publishers additional fees when they granted the exceptions to the line item cap?

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	Page 250		Page 252
1	MS. YOUNG: Objection; form.	1	<ol> <li>Could you ask the question again.</li> </ol>
2	A. In my analysis, I can only analyze the	2	Q. (BY MR. EWALT) Sure.
3	conduct that was actually occurred.	3	In that sentence that I just read to you, is
4	The conduct was a simple line item cap	4	there any mention about one way or the other whether
5	without any engagement in strategies that might have	5	these 18 premium pubs requested exemptions over the
6	mitigated the cost that that was imposing on its own	6	line item limit?
7	customers.	7	MS. YOUNG: Same objection.
8	Q. (BY MR. EWALT) And is in your view, is it	8	A. This particular paragraph doesn't speak to
9	anticompetitive because Google chose a strategy of	9	the process by which handling of exemptions arose.
10	imposing a cap as opposed to the strategy of charging	10	Q. (BY MR. EWALT) Okay. Do you know whether
11	customers for higher usage in line items?	11	those 18 publishers all operated in the United States?
12	A. I am suggesting that not charging for it is	12	A. I do not know where they operated.
13	the dog that didn't bark that shows that Google's	13	Q. Do you know what percentage of all U.S. ad
14	intent was about limiting the ability to use Header	14	exchange transactions were accounted for by those 18
15	Bidding rather than its own cost management issues.	15	publishers?
16	Q. Would you please turn to Paragraph 675 of	16	A. I don't know because I don't know the list of
17	your opening report.	17	those 18 publishers.
18	And the last sentence of that paragraph		
19	reads: "In October 2018, only 2 out of the 18		
20	publishers over the limit were granted exceptions."		
21	Do you see that?		
22	A. Yes.	ī	
23	Q. So as of 2018, there were 18 publishers that		
24	were over the line item limit?		
25	A. That were that requested exemptions. Yes,		
23	71. That were that requested exemptions. Tes,		
25			Page 253
1	Page 251 that that's my understanding.		Page 253
	Page 251	1 2	Page 253  Q. (BY MR. EWALT) Do you have any reason to
1	Page 251 that that's my understanding.	2 3	
1 2	Page 251 that that's my understanding. Q. So your your understanding is that these these are only the 18 publishers that		Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using
1 2 3	Page 251 that that's my understanding. Q. So your your understanding is that	3	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?
1 2 3 4	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.	3 4	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.
1 2 3 4 5	Page 251 that that's my understanding. Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?	3 4 5	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full
1 2 3 4 5 6	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back	3 4 5 6	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it
1 2 3 4 5 6 7	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.	3 4 5 6 7	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full
1 2 3 4 5 6 7 8	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.  Q. And please, within Exhibit 13, turn to the	3 4 5 6 7 8	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it more difficult to use Header Bidding.
1 2 3 4 5 6 7 8 9	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.	3 4 5 6 7 8 9	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it more difficult to use Header Bidding.  Q. (BY MR. EWALT) Would you please turn to
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1 2 3 4 5 6 7 8 9 10	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.  Q. And please, within Exhibit 13, turn to the page ending with 003.  A. Yes.  Q. And there's a heading that reads: "Move away	3 4 5 6 7 8 9 10 11	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it more difficult to use Header Bidding.  Q. (BY MR. EWALT) Would you please turn to Paragraph 657 of your opening report.  A. Yes.  Q. And there you talk about Header Bidding
1 2 3 4 5 6 7 8 9 10 11 12	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.  Q. And please, within Exhibit 13, turn to the page ending with 003.  A. Yes.  Q. And there's a heading that reads: "Move away from Header Bidding towards exchange bidding."	3 4 5 6 7 8 9 10 11 12	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it more difficult to use Header Bidding.  Q. (BY MR. EWALT) Would you please turn to Paragraph 657 of your opening report.  A. Yes.
1 2 3 4 5 6 7 8 9 10 11 12 13	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.  Q. And please, within Exhibit 13, turn to the page ending with 003.  A. Yes.  Q. And there's a heading that reads: "Move away	3 4 5 6 7 8 9 10 11 12 13	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it more difficult to use Header Bidding.  Q. (BY MR. EWALT) Would you please turn to Paragraph 657 of your opening report.  A. Yes.  Q. And there you talk about Header Bidding Manager.  Is that fair?
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 251 that that's my understanding.  Q. So your your understanding is that these these are only the 18 publishers that requested exemptions?  A. Yes.  Q. All right. Now, would you please turn back to Exhibit 13.  A. Yeah.  Q. And please, within Exhibit 13, turn to the page ending with 003.  A. Yes.  Q. And there's a heading that reads: "Move away from Header Bidding towards exchange bidding."  Do you see that?  A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14	Q. (BY MR. EWALT) Do you have any reason to believe that any publisher was prevented from using Header Bidding because of the line item caps?  MS. YOUNG: Objection; form.  A. I don't believe the line item caps was a full prevention of using Header Bidding. It just made it more difficult to use Header Bidding.  Q. (BY MR. EWALT) Would you please turn to Paragraph 657 of your opening report.  A. Yes.  Q. And there you talk about Header Bidding Manager.  Is that fair?  A. Seems that way.
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MS. YOUNG: Objection; form.

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1 the let me strike all that. 2 MS. YOUNG: Objection; form. 3 A. Would you ask that question again? 4 Q. (BY MR. EWALT) Does the availability of Bidding Manager reduce the effects on Header Bidding Manager reduce the effects on Header Bidding that you found were caused by line item caps? 5 MS. YOUNG: Same objection. 8 A. It it may do so for some publishers. 9 Q. (BY MR. EWALT) In either of your reports, did you express an opinion about the overall net effect of line item caps considering the effects on both advertisers and publishers? 13 MS. YOUNG: Objection; form. 14 A. Line item caps were a restriction on on publishers, and so my analysis was focused on the limipact on competitive conditions that faced those that that were in the publisher facing markets. 18 Q. (BY MR. EWALT) And did you consider impacts on advertisers from line item capping? 19 A. I didn't directly consider that. 21 Q. Let's talk about data redactions. 22 Would you please turn to Paragraph 688 23 of your opening report? 24 A. Yes. 25 Q. The first sentence reads: "This section 26 Yerhatim  data for publisher was to remove the ability of publishers to compare their performance across competing exchanges and Header Bidding. 27 Yerhatim  data for publisher was to remove the ability of publishers to gain insights about their ability to preference its ad exchange by removing publisher's abilities to compare their performance across competing exchanges and Header Bidding. 3 MS. YOUNG: Objection; form. 4 District the publisher of the publisher was to remove the compare their publisher were the publisher was to remove the publishers and the performance of their performance across competing exchanges in redacting how there exchanges that they would be able to therefore through that increased publisher shall be performance across competing exchanges in redacting how there were does not be able to the reformance across competing exchanges in Header Bidding?  10 Q. h. J. apologize. 11 Knowledge be able compare more clearly the performance	MS. YOUNG: Objection; for A. Would you ask that question age Q. (BY MR. EWALT) Does the ast Header Bidding Manager reduce the elements of Bidding that you found were caused by MS. YOUNG: Same objection and MS. YOUNG: Same objection and MS. YOUNG: Same objection and MS. YOUNG: Same objection are the elements of the property of the pr	Page 254		Page 256
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4 business on competing exchanges through joining the DT 5 files and ultimately to preference its ad exchange by 6 removing publisher's abilities to compare their 7 performance across competing exchanges and Header 8 Bidding." 9 Do you see that? 10 A. Yes, except it was redacting not reducing. 11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; form. 13 Q. (BY MR. EWALT) Can you please point me to the evidence that you relied upon to support your 14 evidence that you relied upon to support your 15 conclusion that Google's true motivation in redacting 16 data was to remove publisher's ability to compare 17 their performance across competing exchanges in Header 18 Bidding? 19 A. Well, it's various things that I list 19 following that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine 17 data understanding, they would be able to engage in Header Bidding more effectively for them.  7 Q. (BY MR. EWALT) I'm sorry. Are you reading from the report somewhere?  9 A. No, I'm telling you.  10 Q. Okay. I was just asking where in your report you have the evidence for this?  11 Q. And where in 690. 690 is the evidence for it.  12 A. This is this is at 690. 690 is the evidence for it.  13 Q. And where in 690 do you quote evidence discussing the comparison of exchanges in Header  15 discussing the comparison of exchanges that were made to the data transfer files, there's a discussion of why those redactions occur, and there's a trying to prevent the publishers from being able to determine	4 business on competing exchanges thro 5 files and ultimately to preference its ac 6 removing publisher's abilities to comp 7 performance across competing exchang 8 Bidding." 9 Do you see that? 10 A. Yes, except it was redacting no 11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; for 13 Q. (BY MR. EWALT) Can you p 14 evidence that you relied upon to support 15 conclusion that Google's true motivati 16 data was to remove publisher's ability 17 their performance across competing extended at the performance across	emove the	2	of Google's products in comparison into transactions
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6 removing publisher's abilities to compare their 7 performance across competing exchanges and Header 8 Bidding." 9 Do you see that? 10 A. Yes, except it was redacting not reducing. 11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; form. 13 Q. (BY MR. EWALT) Can you please point me to the 14 evidence that you relied upon to support your 15 conclusion that Google's true motivation in redacting 16 data was to remove publisher's ability to compare 17 their performance across competing exchanges in Header 18 Bidding? 19 A. Well, it's various things that I list 20 following that paragraph in Paragraph 690 and 20 (BY MR. EWALT) I'm sorry. Are you reading 7 Q. (BY MR. EWALT) I'm sorry. Are you reading 8 from the report somewhere? 9 A. No, I'm telling you. 10 Q. Okay. I was just asking where in your report 11 you have the evidence for this? 12 A. This is this is at 690. 690 is the 13 evidence for it. 14 Q. And where in 690 do you quote evidence 15 discussing the comparison of exchanges in Header 16 Bidding? 17 A. If you look here, the exchanges that were 18 made to the data transfer files, there's a discussion 19 Gillowing that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine	6 removing publisher's abilities to comp 7 performance across competing exchan 8 Bidding." 9 Do you see that? 10 A. Yes, except it was redacting no 11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; for 13 Q. (BY MR. EWALT) Can you p 14 evidence that you relied upon to support 15 conclusion that Google's true motivati 16 data was to remove publisher's ability 17 their performance across competing extended and the performance across com	ough joining the DT	4	Bidding. By having that understanding, they would be
7 Performance across competing exchanges and Header 8 Bidding." 9 Do you see that? 10 A. Yes, except it was redacting not reducing. 11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; form. 13 Q. (BY MR. EWALT) Can you please point me to the 14 evidence that you relied upon to support your 15 conclusion that Google's true motivation in redacting 16 data was to remove publisher's ability to compare 17 their performance across competing exchanges in Header 18 Bidding? 19 A. Well, it's various things that I list 20 following that paragraph in Paragraph 690 and 20 (BY MR. EWALT) I'm sorry. Are you reading 8 from the report somewhere? 9 A. No, I'm telling you. 10 Q. Okay. I was just asking where in your report 11 you have the evidence for this? 12 A. This is this is at 690. 690 is the 13 evidence for it. 14 Q. And where in 690 do you quote evidence 15 discussing the comparison of exchanges in Header 16 Bidding? 17 A. If you look here, the exchanges that were 18 made to the data transfer files, there's a discussion 19 of why those redactions occur, and there's a trying 20 following that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine	7 performance across competing exchange 8 Bidding." 9 Do you see that? 10 A. Yes, except it was redacting no 11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; for 13 Q. (BY MR. EWALT) Can you p 14 evidence that you relied upon to support 15 conclusion that Google's true motivati 16 data was to remove publisher's ability 17 their performance across competing expending 18 Bidding? 19 A. Well, it's various things that I lis 19 following that paragraph in Paragraph 19 Paragraph 691. 20 In paragraph yeah. 690 and	d exchange by	5	able to engage in Header Bidding more effectively for
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11  Q. Oh, I apologize. 12  MS. YOUNG: Objection; form. 13  Q. (BY MR. EWALT) Can you please point me to the 14  evidence that you relied upon to support your 15  conclusion that Google's true motivation in redacting 16  data was to remove publisher's ability to compare 17  their performance across competing exchanges in Header 18  Bidding? 19  A. Well, it's various things that I list 20  following that paragraph in Paragraph 690 and 21  you have the evidence for this? 22  A. This is this is at 690. 690 is the 23  evidence for it. 24  Q. And where in 690 do you quote evidence 25  discussing the comparison of exchanges in Header 26  lightly it is a discussion in Header 27  A. If you look here, the exchanges that were 28  made to the data transfer files, there's a discussion 39  if you have the evidence for this? 30  A. This is this is at 690. 690 is the 30  evidence for it. 30  if you have the evidence for this? 30  if you have the evidence for this? 41   Q. And where in 690 do you quote evidence 42  if you look here, the exchanges that were 43  if you look here, the exchanges that were 44  if you look here, the exchanges that were 45  if you look here, the exchanges that were 46  if you look here, the exchanges that were 47  if you look here, the exchanges that were 48  if you look here, the exchanges that were 49  if you look here, the exchanges that were 40  if you look here, the exchanges that were 41  if you look here, the exchanges that were 42  if you look here, the exchanges that were 43  if you look here, the exchanges that were 44  if you look here, the exchanges that were 45  if you look here, the exchanges that were 46  if you look here, the exchanges that were	11 Q. Oh, I apologize. 12 MS. YOUNG: Objection; for 13 Q. (BY MR. EWALT) Can you p 14 evidence that you relied upon to suppor 15 conclusion that Google's true motivati 16 data was to remove publisher's ability 17 their performance across competing ex 18 Bidding? 19 A. Well, it's various things that I li 20 following that paragraph in Paragraph 21 Paragraph 691. 22 In paragraph yeah. 690 and		9	A. No, I'm telling you.
MS. YOUNG: Objection; form.  Q. (BY MR. EWALT) Can you please point me to the evidence that you relied upon to support your conclusion that Google's true motivation in redacting data was to remove publisher's ability to compare their performance across competing exchanges in Header Bidding?  A. This is this is at 690. 690 is the evidence for it.  Q. And where in 690 do you quote evidence discussing the comparison of exchanges in Header Bidding?  A. If you look here, the exchanges that were made to the data transfer files, there's a discussion of why those redactions occur, and there's a trying to prevent the publishers from being able to determine	MS. YOUNG: Objection; for Q. (BY MR. EWALT) Can you p evidence that you relied upon to support conclusion that Google's true motivation data was to remove publisher's ability their performance across competing examples as Bidding?  A. Well, it's various things that I lie following that paragraph in Paragraph Paragraph 691.  In paragraph yeah. 690 and	ot reducing.	10	Q. Okay. I was just asking where in your report
Q. (BY MR. EWALT) Can you please point me to the evidence that you relied upon to support your 14 Q. And where in 690 do you quote evidence conclusion that Google's true motivation in redacting 15 discussing the comparison of exchanges in Header 16 data was to remove publisher's ability to compare 16 Bidding? 17 their performance across competing exchanges in Header 18 Bidding? 18 made to the data transfer files, there's a discussion 19 A. Well, it's various things that I list 19 of why those redactions occur, and there's a trying 20 following that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine	Q. (BY MR. EWALT) Can you p evidence that you relied upon to support conclusion that Google's true motivati data was to remove publisher's ability their performance across competing ex Bidding? A. Well, it's various things that I li following that paragraph in Paragraph Paragraph 691. In paragraph yeah. 690 and		11	you have the evidence for this?
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15 conclusion that Google's true motivation in redacting 16 data was to remove publisher's ability to compare 17 their performance across competing exchanges in Header 18 Bidding? 19 A. Well, it's various things that I list 20 following that paragraph in Paragraph 690 and 21 discussing the comparison of exchanges in Header 22 discussing the comparison of exchanges in Header 23 Header 24 Bidding? 26 a. If you look here, the exchanges that were 27 made to the data transfer files, there's a discussion 28 discussing the comparison of exchanges in Header 29 header 20 following that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine	<ul> <li>conclusion that Google's true motivati</li> <li>data was to remove publisher's ability</li> <li>their performance across competing ex</li> <li>Bidding?</li> <li>A. Well, it's various things that I li</li> <li>following that paragraph in Paragraph</li> <li>Paragraph 691.</li> <li>In paragraph yeah. 690 and</li> </ul>	please point me to the	13	evidence for it.
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their performance across competing exchanges in Header Bidding?  A. If you look here, the exchanges that were made to the data transfer files, there's a discussion of why those redactions occur, and there's a trying following that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine	<ul> <li>their performance across competing ex</li> <li>Bidding?</li> <li>A. Well, it's various things that I li</li> <li>following that paragraph in Paragraph</li> <li>Paragraph 691.</li> <li>In paragraph yeah. 690 and</li> </ul>	ion in redacting	15	discussing the comparison of exchanges in Header
18 Bidding? 19 A. Well, it's various things that I list 20 following that paragraph in Paragraph 690 and 18 made to the data transfer files, there's a discussion 19 of why those redactions occur, and there's a trying 20 to prevent the publishers from being able to determine	<ul> <li>Bidding?</li> <li>A. Well, it's various things that I li</li> <li>following that paragraph in Paragraph</li> <li>Paragraph 691.</li> <li>In paragraph yeah. 690 and</li> </ul>	to compare	16	Bidding?
19 A. Well, it's various things that I list 20 following that paragraph in Paragraph 690 and 19 of why those redactions occur, and there's a trying 20 to prevent the publishers from being able to determine	19 A. Well, it's various things that I li 20 following that paragraph in Paragraph 21 Paragraph 691. 22 In paragraph yeah. 690 and	xchanges in Header	17	A. If you look here, the exchanges that were
20 following that paragraph in Paragraph 690 and 20 to prevent the publishers from being able to determine	<ul> <li>20 following that paragraph in Paragraph</li> <li>21 Paragraph 691.</li> <li>22 In paragraph yeah. 690 and</li> </ul>		18	made to the data transfer files, there's a discussion
	<ul><li>21 Paragraph 691.</li><li>22 In paragraph yeah. 690 and</li></ul>	ist	19	of why those redactions occur, and there's a trying
	In paragraph yeah. 690 and	1 690 and	20	to prevent the publishers from being able to determine
21 Paragraph 691. 21 advertisers who are willing to pay for each user's	1 0 1		21	advertisers who are willing to pay for each user's
In paragraph yeah. 690 and 691, 22 impression.	23 yeah	d 691,	22	impression.
23 yeah. 23 That's a critical input in understanding	23 yean.		23	That's a critical input in understanding
Q. Okay. So which of the sources there indicate 24 what the value that Google is potentially bringing to	24 Q. Okay. So which of the sources	s there indicate	24	what the value that Google is potentially bringing to
	25 that it was Google's intention excuse	e me. Which of	25	publishers through its ad exchange.

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	IndiL1 co.		
	Page 258		Page 260
1	And these are done down to high	1	Exhibit 14?
2	gradation levels that allows them to engage in yield	2	A. Oh, you've given me two.
3	optimization.	3	Q. Oh.
4	Q. And so you were just referring to the	4	A. Paragraph 11. I'm sorry. I'm looking at
5	sentence with the quote that ends with Footnote 881;	5	page.
6	is that right?	6	Yes.
7	A. That's right.	7	Q. Okay. And the second sentence there says:
8	Q. And the quote there says: "We want to	8	"Prior to September 2019, Google allowed buyers to opt
9	prevent a publisher to be able to determine these	9	out of including information about their bids in BDT
10	advertisers were willing to pay this much for that	10	files."
11	user's impression," right?	11	You see that?
12	A. Yes.	12	A. Yes.
13	Q. And that quote says that Google was wanted	13	Q. Do you have any reason to doubt that prior to
14	to prevent a publisher from being able to determine	14	September 2019 Google allowed buyers to opt out of
15	the advertiser's willingness to pay, right?	15	including information about their bids in BDT files?
16	A. Yes.	16	A. No.
17	Q. It doesn't say anything there about wanting	17	MS. YOUNG: Objection; form.
18	to prevent publishers from comparing exchanges, does	18	A. No.
19	it?	19	Q. (BY MR. EWALT) Are you aware that buyer
20	MS. YOUNG: Objection; form.	20	opt-outs limited the amount of bid data that was
21	A. Absolutely. That's how that's what	21	available to publishers?
22	they're trying to do in explain in comparing	22	A. I would expect that they would.
23	exchanges. You need to understand what the bid prices	23	Q. Are you aware that when Google made the data
24	coming through those exchanges mean for you and to	24	redactions discussed in your reports they also removed
25	make inferences from them.	25	the ability of buyers to opt out of having their bid
	Page 259		Page 261
1	And, in fact, it's just a general	1	data shared with publishers?
2	approach to any auction theory that you would you	2	MS. YOUNG: Objection; form.
3	know, an auction sorry, auction participation, that	3	A. I don't know the circumstances of that.
4	you would engage in such things.	4	Q. But did you know that Google removed the
5	So information is required. Google is	5	opt-out at the same time they made the redactions to
6	redacting that information, and that's why the	6	the data transfer files?
7	publishers want that information.	7	MS. YOUNG: Objection; form.
8	Q. (BY MR. EWALT) Are you aware that prior to	8	A. I can't recall.
9	2019, buyers could opt out of allowing Google to share	9	Q. (BY MR. EWALT) Are you aware of whether some
10	data about their bids with publishers?	10	publishers considered the 2019 changes to the data
11	A. I I'm I'm not aware of the specifics of	11	transfer files to be an improvement because they
12	that, but it's possible.	12	received bid data from all buyers?
13	(Marked Gans Exhibit No. 14.)	13	MS. YOUNG: Objection; form.
14	Q. (BY MR. EWALT) I'm handing you what's been	14	A. I'm not specifically aware of what some
15	marked as Exhibit 14. It's the declaration of	15	publishers may have viewed this as.
	, signed on June 28, 2024. And the first page	16	Q. (BY MR. EWALT) Is it your opinion that the
17	bears Bates No. GOOG-AT-MDL-C-000073682.	17	data redactions were anticompetitive because Google
18	Do you see that?	18	made changes to what data was available in the data
19	A. Yes.	19	transfer files?
20	Q. Have you seen Exhibit 14 before?	20	A. My opinion is that the redactions part of it
21	A. I am not sure if I have seen it before.	21	that Google made to the extent that it left publishers
22	Q. All right. Would you	22	with some publishers with less information is
23	A. Certainly, it seems to be done after my first	23	anticompetitive because if the markets were
24	report.	24	competitive, Google would have not either not
25	Q. Okay. Could you turn to Paragraph 11 in	25	engaged in those redactions or publishers would have

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	Page 262		Page 264
1	been able to switch to a provider that provided them	1	My analysis was on the impact of the
2	the information they needed.	2	data redaction conduct on the ability of Header
3	Q. Okay. Would you please turn to Paragraph 699	3	Bidding to impact on ad exchange composition.
4	in your opening report.	4	The manifestation of which might have
5	A. Yes.	5	been a reduction in the use of Header Bidding or it
6		6	might not have.
▮▮		7	Q. (BY MR. EWALT) Is it your opinion that the
▮┋		8	redaction of the data files could have affected
I.E.		9	competition in the ad exchange market even if it had
		10	no impact on publisher usage of Header Bidding?
		11	MS. YOUNG: Objection; form.
		12	A. Yes, because it could have reduced their
		13	ability to use Header Bidding effectively.
		14	Q. (BY MR. EWALT) In either of your reports did
		15	you express an opinion about the overall net effect of
		16	the data redactions considering the effects on both
		17	advertisers and publishers?
		18	MS. YOUNG: Objection; form.
		19	A. It was not necessary given the conduct was on
20	Q. Could you turn back to Exhibit 14?	20	the publisher market.
21	I want to direct your attention to	21	Q. (BY MR. EWALT) So is fair to say that you did
22	Paragraph 17 on Page 9.	22	not evaluate the effects of the data redactions on
23	A. Yes.	23	advertisers?
24	Q. And Paragraph 17 states that as of August 31,	24	A. My focus was on, as I said before, whether
25	2019, the 41 publishers listed below subscribed to	25	Google would have engaged in this conduct had they had
	Page 263		Page 265
1	receive BDT files.	1	a competitive ad server market. And my conclusion was
2	Do you see that?	2	that they would not have.
3	A. Yes.	3	Q. Did you evaluate the effect of data
4	Q. Do you know what percentage of all U.S. ad	4	redactions on advertisers?
5	exchange transactions were accounted for by those 41	5	A. I wasn't
6	publishers?	6	MS. YOUNG: Objection; form.
7	MS. YOUNG: Objection; form.	7	Go ahead.
8	A. No.	8	THE WITNESS: Sorry.
9	MS. YOUNG: Go ahead.	9	A. I wasn't calculating the incidents of damage
10	A. No.	10	of the anticompetitive conduct, just the presence of
11	Q. (BY MR. EWALT) Do you have any reason to	11	it and the harm the existence of harm to
12	believe that any publisher was prevented or dissuaded	12	competition.
13	from using Header Bidding because of the data transfer	13	MR. EWALT: We can go off the record.
14	files?	14	THE VIDEOGRAPHER: This is now the end
15	MS. YOUNG: Objection; form.	15	of Video 6 of Joshua Gans. We're off the record. The
16	A. My analysis was in terms of how effective	16	time is approximately 6:08.
17	they could effectively they could use Header	17	(Break from 6:08 p.m. to 7:01 p.m.)
18	Bidding in order to create further exchange	18	THE VIDEOGRAPHER: Now on the record of
19	competition, not necessarily whether they would	19	Video 7 of Joshua Gans. The time is approximately
20	curtail the use of Header Bidding or not.	20	7:01.
21	Q. (BY MR. EWALT) Is it fair to say you did not	21	Q. (BY MR. EWALT) Professor Gans, during the
22	analyze whether any publisher curtailed its use of	22	break did you discuss the substance of this case with
23	Header Bidding because of the data transfer files?	23	counsel?
1		0.4	MC MOIDIC Comming to the discounties of the second in the
24 25	MS. YOUNG: Objection; form.	24	MS. YOUNG: Same instruction as earlier today. Pursuant to the expert stipulation entered by

67 (Pages 262 - 265)

	Page 266		Page 268
1	the court in this case, I instruct the witnesses not	1	tested?
2	to witness not to disclose the contents of	2	A. Yes.
3	communications with counsel.	3	Q. Have the methodologies that you used been the
4	Q. (BY MR. EWALT) Based on that instruction, we	4	subject of peer review and publication?
5	pass the witness.	5	A. Yes.
6	EXAMINATION	6	Q. Are the methodologies that you used generally
7	BY MS. YOUNG:	7	accepted in the field of economics to define markets?
8	Q. Professor Gans, do you recall the questions	8	A. Yes.
9	that Google's counsel asked you today regarding your	9	Q. Did you reliably apply the methodologies that
10	opinions in your June 7 opening report and	10	you used to form your opinions about the relevant
11	corresponding errata?	11	markets in this case?
12	A. Yes.	12	A. Yes.
13	Q. Was any of your testimony today intended to	13	Q. Did you have sufficient facts or data to
14	change the opinions expressed in your opening report	14	reach the opinions you did in this case about market
15	and corresponding errata?	15	definitions?
16	A. No.	16	A. Yes.
17	Q. Was any of your testimony today intended to	17	Q. Did you have sufficient facts and data to
18	limit the opinions expressed in your opening report	18	reach your opinions within your two reports in this
19	and corresponding errata?	19	case?
20	A. No.	20	A. Yes.
21	Q. Professor Gans, do you recall the questions	21	Q. Did you offer any new methodologies or
22	that Google's counsel asked you today about your	22	opinions in your rebuttal report?
23	opinions in your September 9, rebuttal report?	23	A. No.
24	A. Yes.	24	Q. Are you offering any new opinions, as you sit
25	Q. Aside from the two issues that you noted on	25	here today, subject to your continuing review of the
	Page 267		Page 269
1	the record with respect to the term "numerator" used	1	Professor Baye surrebuttal report and backup
2	the record with respect to the term "numerator" used in Paragraph 18 of your rebuttal report and the	2	
	the record with respect to the term "numerator" used in Paragraph 18 of your rebuttal report and the missing footnote to Figure 7 in your rebuttal report,		Professor Baye surrebuttal report and backup materials?  A. No.
2 3 4	the record with respect to the term "numerator" used in Paragraph 18 of your rebuttal report and the missing footnote to Figure 7 in your rebuttal report, was any of your testimony today intended to change the	2 3 4	Professor Baye surrebuttal report and backup materials?  A. No.  Q. Professor Gans, do you recall the questioning
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2 3 4 5 6	the record with respect to the term "numerator" used in Paragraph 18 of your rebuttal report and the missing footnote to Figure 7 in your rebuttal report, was any of your testimony today intended to change the opinions expressed in your rebuttal report?  A. No.	2 3 4 5 6	Professor Baye surrebuttal report and backup materials?  A. No.  Q. Professor Gans, do you recall the questioning by Google's counsel regarding the SSNIP, which stands for small but significant nontransitory increase in
2 3 4 5 6 7	the record with respect to the term "numerator" used in Paragraph 18 of your rebuttal report and the missing footnote to Figure 7 in your rebuttal report, was any of your testimony today intended to change the opinions expressed in your rebuttal report?  A. No.  Q. Was any of your testimony today intended to	2 3 4 5 6 7	Professor Baye surrebuttal report and backup materials?  A. No.  Q. Professor Gans, do you recall the questioning by Google's counsel regarding the SSNIP, which stands for small but significant nontransitory increase in price?
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1	unprofitable for a hypothetical monopolist of ad	1	Q. In your opening report do you provide
2	exchanges in order to raise prices of open web display	2	opinions on the timing of Google's monopoly power in
3	impressions?	3	the ad exchange market that you define?
4	A. Yes.	4	A. Yes, I have provide opinions on the time.
5	Q. In your opening report did you investigate	5	Q. If we can go to Table 5 of your opening
6	the substitutability between selling open web display	6	report that follows Paragraph 372.
7	advertising inventory and selling in-app inventory?	7	A. Yes.
8	A. Yes.	8	Q. Okay. Does that table does that table
9	Q. For example, did you find that publishers who	9	provide your opinion on the timing of Google's
10	sell primary in-app inventory use different tools than	10	monopoly power in the ad exchange market that you
11	those selling open web display advertising?	11	define?
12	A. Yes.	12	A. It provides opinion on the times that Google
13	Q. Professor Gans, do you recall being asked	13	had monopoly power.
14	about your reliance on a conversation with Professor	14	
15	Chandler with respect to your opinions about distinct		
16	product markets from an industry perspective?		
17	A. Distinct product markets?		
18	Q. I can re-ask the question. It was a long	18	Q. Professor Gans, do you stand by that opinion
19	question.	19	of market share calculation today?
20	A. I recall a discussion of distinct pricing.	20	A. Yes.
21	Q. Okay. Do you recall discussing with Google	21	Q. If we can go to Paragraph 391 of your opening
22	counsel regarding your conversation with Professor	22	report.
23	Chandler about ad-buying tools for small advertisers?	23	A. Yes.
24	A. Yes.	24	Q. Have you read that paragraph?
25	Q. Other than your conversation with Professor	25	A. Yes.
	Page 271		Page 27
1	Chandler, did you review documents that support your	1	Q. In that paragraph, do you state that there
2	contention of industry recognition of ad-buying tools	2	had been no new entrants or that there have been
3	for small advertisers as a distinct product market?	3	entrants in the ad exchange market in the last
4	A. Yes.	4	12 years?
5	Q. Did you review any deposition testimony that	5	A. I state in that paragraph that there's been
6	supports industry recognition of ad-buying tools for	6	no new entrants in the last 12 years.
7	small advertisers as a distinct product market?	7	Q. Is it your opinion that Google has had
8	A. I believe so.	8	monopoly power in the ad exchange market that you
9	Q. And did that review of documents and	9	define for multiple years?
10	deposition testimony also support your contention that	10	A. Yes.
11	there's public recognition of ad-buying tools for	11	Q. Professor Gans, do you recall when Google's
12	small advertisers as a distinct product market?	12	counsel asked you about the date on which Google
13	A. My recollection is it was supportive of that	13	obtained monopoly power in the publisher ad server
14	contention.	14	market that you define?
15	Q. Did you strike that.	15	A. Yes.
16	Other than your conversation with	16	Q. In your opening report, do you provide an
17	Professor Chandler, did you review documents and	17	opinion on the timing of Google's monopoly power in
18	deposition testimony that supported your contention	18	the publisher ad server market that you define?
19	that industry of industry and public recognition of	19	A. Yes, I provide an opinion on the times of
20	publisher ad servers as a distinct product market?	20	that monopoly power.
21	A. I did.	21	Q. If we can go to Paragraph 353 of your report
22	Q. Professor Gans, do you recall when Google's	22	and look at the Figure 9 that follows that paragraph.
23	counsel asked you about the date on which Google	23	Do you see what I am referring to?
	1 de la companya de l	20	

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24

25

A. Yes.

Q. In that Figure 9, do you provide a timeline

24 obtained monopoly power in the ad exchange market?

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A. Yes.

25

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	Page 274		Page 276
1	for Google's monopoly power in the publisher ad server	1	Do you see Paragraph 812?
2	market that you define spanning 2011 to 2022?	2	A. Yes.
3	A. Yes, I provide information on the times that	3	Q. Is that an example of an opinion of yours
4	Google had monopoly power.	4	that Google's exchange fee is super competitive?
5	MR. EWALT: Objection; form.	5	A. Yes.
6	Q. (BY MS. YOUNG) Professor Gans, do you recall	6	Q. If you look at Paragraphs 813 and 815 that
7	when Google's counsel asked you the date on which	7	follow immediately after Paragraph 812
8	Google obtained monopoly power in a small advertiser	8	A. Yes.
9	buying tool market that you define?	9	Q are those also examples of opinions of
10	A. Yes.	10	yours that Google's exchange fee is super competitive?
11	Q. In your opening report, do you provide an	11	A. Yes.
12	opinion on the timing of Google's monopoly power in	12	Q. Professor Gans, do you recall when Google's
13	the small advertiser buying tools market that you	13	counsel asked you about the contractual tying of AdX
14	define?	14	and DFP?
15	A. Yes, I provide an opinion on the times.	15	A. Yes.
16	Q. Let's go to Paragraph 395 and look at the	16	Q. If we can go to Paragraph 444 of your opening
17	figure that follows that paragraph in your opening	17	report?
18	report.	18	A. Yep.
19	Do you see what I'm referring to?	19	Q. In that paragraph, do you opine whether DFP
20	A. Yes.	20	and AdX are two separate products or the same product?
		21	A. I state that they're separate products.
		22	Q. In Paragraph 446 of your opening report, do
		23	you describe the contractual tying of DFP and AdX?
		24	A. Yes.
		25	Q. Do you stand by that description here today?
	Page 275		Page 277
1	Q. That's okay. I will strike that question and	1	A. Yes.
2	move on.	2	Q. In your opening report, do you opine that
3	A. Thank you.	3	Google contractually tied DFP and AdX through a
4	Q. Do you recall when Google's counsel asked you	4	unified DRS contract?
5	whether you reached a conclusion on ad exchange fees	5	A. Yes.
6	being at, above, or below a competitive price?	6	MS. YOUNG: I'm going to pass the
7	A. Yes.	7	witness at this time and reserve redirect and time at
8	Q. Above competitive price is also referred in	8	trial.
9	economic literature as super competitive price,	9	MR. EWALT: Okay. Let's go off the
10	correct?	10	record.
11	A. Yes. Yes.	11	THE VIDEOGRAPHER: Now going off the
12	Q. Okay. Can your opinions on Google's exchange	12	record. The time is 7:18.
13	fee being super competitive be found within your	13	(Break from 7:18 p.m. to 7:25 p.m.)
14	original and rebuttal reports?	14	THE VIDEOGRAPHER: Now back on the
15	MR. EWALT: Objection; form.	15	record. The time is approximately 7:25.
16	A. Yes.	16	FURTHER EXAMINATION
17	Q. (BY MS. YOUNG) Do your opinions on Google's	17	BY MR. EWALT:
18	exchange fee being super competitive I'll strike	18	Q. Professor Gans, do you recall being asked
19	that.	19	questions about whether your methodologies for
20	Do your original and rebuttal reports contain	20	defining relevant markets could be tested?
	opinions about Google's exchange fee being super	21	A. Just now, yes.
21	opinions account coogses a circumingo for coming super	1	
21 22	competitive?	22	<ul> <li>Q. And you answered that your methodologies for</li> </ul>
		22 23	Q. And you answered that your methodologies for testing for defining relevant markets could be
22	competitive?		

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1	Q. How would one test the application of the	1	review documents and deposition testimony about those
2	Brown Shoe factors to the definition of a relevant	2	issues; is that right?
3	market?	3	A. Yes.
4	A. Oh, I interpreted testing as you could use	4	Q. But you did not cite in your opening report
5	those methodologies and apply them with relation to	5	or your rebuttal report any of those materials,
6	evidence is how I interpreted that question.	6	depositions or documents, in support of your
7	And you could also take those	7	conclusions about the industry or public recognition
8	methodologies and evaluate whether they were suitably	8	of a market for advertiser buying tools for small
9	applied in the circumstance.	9	advertisers, correct?
10	Q. How would you test whether those	10	MS. YOUNG: Objection; form.
11	methodologies were suitably applied?	11	A. I was asked about were there other things
12	A. There are various means. Depending on the	12	that I reviewed that pertained to those, the the
13	context and the way that they were applied, et cetera,	13	public recognition, and were supportive of it, and I
14	it was would involve examination of how that the	14	said that I did. But I did not cite those in my
15	preponderance of the evidence fit together to reach a	15	report because well, I did not, yeah.
16	conclusion. I I'm not quite sure what specific	16	Q. (BY MR. EWALT) And you did not rely on those
17	things you would do, just that they can be done that	17	documents and deposition testimony to support your
18	way.	18	opinions about industry or public recognition of a
19	Q. Do you recall being asked questions about	19	market for ad-buying tools for small advertisers,
20	whether it was necessary to start with the competitive	20	correct?
21	price when implementing the hypothetical monopolist	21	MS. YOUNG: Objection; form.
22	test?	22	A. I I I didn't separately rely upon them.
23	A. Yes.	23	Q. (BY MR. EWALT) You didn't rely on them at
24	Q. And I believe you testified that it is not	24	all, did you?
25	necessary to start with the competitive price.	25	MS. YOUNG: Objection; form.
	Page 279		Page 281
1	Is that fair?	1	A. When I had a discussion with Professor
2	A. That is correct.	2	Chandler about this, my impressions of his conclusions
3	Q. Would you agree that the standard way to	3	were not contradicted by other things that I had said
4	implement the hypothetical monopolist test is to begin	4	and spoke to that.
5	with the competitive price?	5	Q. (BY MR. EWALT) Is it your testimony that you
6	MS. YOUNG: Objection; form.	6	relied on documents and depositions to support your
7	A. The standard way the hypothetical monopolist	7	conclusions about industry or public recognition of a
8	test is envisioned and taken is to is from the	8	market for small advertiser buying tools?
9	competitive price.	9	A. No, the documents I relied upon are the
10	However, given circumstances and data	10	documents that I listed as being relied upon in
11	and you'll recall we talked about unions of sets, I	11	this these reports.
11 12	and you'll recall we talked about unions of sets, I think. It's getting a little late. You can make	11 12	this these reports.  Q. And you didn't rely on any for purposes of
	think. It's getting a little late. You can make		Q. And you didn't rely on any for purposes of
12		12	
12 13	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical	12 13	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?
12 13 14	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark	12 13 14	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser
12 13 14 15	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.	12 13 14 15	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.
12 13 14 15 16	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to	12 13 14 15 16	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents
12 13 14 15 16 17	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to Paragraph 233 of your opening report.	12 13 14 15 16 17	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents as documents I relied upon.
12 13 14 15 16 17 18	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to Paragraph 233 of your opening report.  A. Yes.	12 13 14 15 16 17 18	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents as documents I relied upon.  Q. (BY MR. EWALT) Could you please turn to
12 13 14 15 16 17 18 19	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to Paragraph 233 of your opening report.  A. Yes.  Q. Do you recall that you were asked by counsel	12 13 14 15 16 17 18 19	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents as documents I relied upon.  Q. (BY MR. EWALT) Could you please turn to Paragraph 372 in your opening report and Table 5 that
12 13 14 15 16 17 18 19 20	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to Paragraph 233 of your opening report.  A. Yes.  Q. Do you recall that you were asked by counsel about whether you reviewed documents and deposition	12 13 14 15 16 17 18 19 20	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents as documents I relied upon.  Q. (BY MR. EWALT) Could you please turn to Paragraph 372 in your opening report and Table 5 that follows?
12 13 14 15 16 17 18 19 20 21	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to Paragraph 233 of your opening report.  A. Yes.  Q. Do you recall that you were asked by counsel about whether you reviewed documents and deposition testimony about industry or public recognition of a	12 13 14 15 16 17 18 19 20 21	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents as documents I relied upon.  Q. (BY MR. EWALT) Could you please turn to Paragraph 372 in your opening report and Table 5 that follows?  A. Yes.
12 13 14 15 16 17 18 19 20 21 22	think. It's getting a little late. You can make inferences regarding the outcome of the hypothetical monopolist test without having a specific benchmark being derived.  Q. (BY MR. EWALT) Could you please turn to Paragraph 233 of your opening report.  A. Yes.  Q. Do you recall that you were asked by counsel about whether you reviewed documents and deposition testimony about industry or public recognition of a candidate market for ad-buying tools for small	12 13 14 15 16 17 18 19 20 21 22	Q. And you didn't rely on any for purposes of the industry or public recognition of an advertiser buying tool for small advertisers market?  MS. YOUNG: Objection; form.  A. I I didn't state list those documents as documents I relied upon.  Q. (BY MR. EWALT) Could you please turn to Paragraph 372 in your opening report and Table 5 that follows?  A. Yes.  Q. Do you recall you were asked questions about

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25

A. Yes.

Q. And I believe you testified that you did

25

		· ·	
1	Page 282 Q. Is it your view that AdX had monopoly power	1	Page 284
1		1 2	MR. EWALT: Object to form.  A. Yes.
2	in the ad exchange market each year between 2018 and 2021?	3	Q. (BY MS. YOUNG) And do those materials contain
	A. Yes.		some of the evidence that you relied upon in forming
4		4	your conclusions in defining market markets in this
5	Q. In either of your reports, did you express an opinion as to whether AdX has or had monopoly power in	5	case?
6	any year other than the years 2018 through 2021?	6	
7		7	A. I believe they do.
8	A. Yes. In my rebuttal report, I also included	8	Q. Okay.  MS. YOUNG: Pass the witness.
9	2022.	-	
10	Q. Okay. In your opening report and your	10	MR. EWALT: Thank you, Professor Gans.
11	rebuttal report, did you express an opinion about	11	I have no further questions.
12	whether AdX has monopoly power in the ad exchange	12	THE WITNESS: Thank you.
13	market in any years other than 2018 through 2022?	13	THE VIDEOGRAPHER: This is now the end
14	A. I I didn't explicitly identify other	14	of Video 7 of Joshua Gans. Off the record. The time
15	years.	15	is approximately 7:35.
16	Q. Could you please turn in your opening report	16	(The deposition concluded at 7:35 p.m.)
17	to Paragraph 353 and Figure 9.	17	
18	A. Yes.	18	
19	Q. Do you recall you were asked questions about	19	
20	whether Figure 9 provides your views about monopoly	20	
21	power in the market for publisher ad service?	21	
22	A. Yes.	22	
23	Q. And I believe that counsel asked you about	23	
24	whether this Figure 9 provided your views about	24	
25	monopoly power in the years 2011 through 2022?	25	
	Page 283		Page 285
1	A. I thought it was 2010 onwards.	1	WITNESS CORRECTIONS AND SIGNATURE.
2	Q. Well, regardless of what your prior testimony	2	Please indicate changes on this sheet of paper,
3	was.		giving the change, page number, line number and reason
4	A. Oh, okay.	3	for the change. Please sign each page of changes.
5	Q. Let me just ask you.	4	PAGE/LINE CORRECTION REASON FOR CHANGE
6	A. Yes.	5	
7	Q. What years, if any, does Figure 9 indicate	7	
8	that AdX had monopoly power?	8	
9	A. Figure 9 indicates that it had monopoly power	9	
10	2010, 2011, 2012, 2015, 2017, 2018, and 2019.	10	
11	Q. Thank you, Professor Gans.	11	
12	MR. EWALT: I'll pass the witness.	12	
13	MS. YOUNG: Brief redirect.	13	
14	FURTHER EXAMINATION	14	
15	BY MS. YOUNG:	15	
16	Q. Professor Gans, in both your opening and	16	
17	rebuttal reports and your materials relied upon, there	17	
18	are a number of deposition testimonies cited from	18	
19	industry participants, including ad buyers,	19 20	
20	publishers, and competitors of Google, correct?	20	
21	MR. EWALT: Object to form.	22	
22	A. I believe so.	23	
23	Q. (BY MS. YOUNG) Yeah. And there are a number	23	JOSHUA GANS
24	of documents cited in your materials relied upon,	24	. ##==#== #===
25	correct?	25	Job No. CS6922874
		1	

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	HIGHLY COL	NI.1	DENTIAL
	Page 286		Page 288
1	SIGNATURE OF WITNESS	1	employ of this attorney; and I certify that I am not
2		2	interested in the cause, nor of kin or counsel to
3	I, JOSHUA GANS, solemnly swear or affirm under the	3	either of the parties.
4 5	pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the	4	That the amount of time used by each party at
6	testimony given by me at the time and place stated	5	the deposition is as follows:
7	with the corrections, if any, and the reasons therefor	6 7	MS. YOUNG - 00:16:47
8	noted on the foregoing correction page(s), and that I	8	MR. EWALT - 06:44:32
9	am signing this before a Notary Public.	9	
10			GIVEN UNDER MY HAND AND SEAL OF OFFICE, on
11		10	this, the 11th of October, 2024.
		11	
12	JOSHUA GANS	12	previous Stehnfuld V
13	STATE OF *		MENDY A. SCHNEIDER, CSR, RPR
14 15	STATE OF * COUNTY OF *	13	Certification No.: 7761
16	SUBSCRIBED AND SWORN TO BEFORE ME BY		Expiration Date: 1-31-2025
17	JOSHUA GANS on this, the day of, 2024.	14	
18	,, ,	15	
19		16	
		17	
20	Notary Public, State of Texas	18	
21		19	
22	My Commission Expires:	20 21	
22	Inh CS 4022974	22	
23	Job CS 6922874	23	
24		24	
25		25	
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1	IN THE UNITED STATES DISTRICT COURT	1	GERALDINE YOUNG
	FOR THE EASTERN DISTRICT OF TEXAS	2	Geraldine.young@nortonrosefulbright.com
2	SHERMAN DIVISION	3	October 11, 2024
3	THE STATE OF TEXAS, et		RE: State Of Texas, Et Al. v. Google LLC
4	al.,	5	10/10/2024, Joshua Gans (#6922874)
	Case No.		
5	Plaintiffs, 4:20-cv-00957-SD	6	The above-referenced transcript is available for
_			review.
6	- against -	8	Within the applicable timeframe, the witness should
7	GOOGLE LLC,	9	read the testimony to verify its accuracy. If there are
	T. T	10	any changes, the witness should note those with the
8	Defendant.	11	reason, on the attached Errata Sheet.
9	THE STATE OF :	12	The witness should sign the Acknowledgment of
10	COUNTY OF :	13	Deponent and Errata and return to the deposing attorney.
11	I, MENDY A. SCHNEIDER, a Certified Shorthand	14	Copies should be sent to all counsel, and to Veritext at
12	Reporter in and for the State of Texas, do hereby	15	erratas-cs@veritext.com.
13	certify that the facts as stated by me in the caption	16	Return completed errata within 30 days from
14 15	hereto are true; that the above and foregoing answers of the witness, JOSHUA GANS, to the interrogatories as	17	receipt of testimony.
16	indicated were made before me by the said witness	18	If the witness fails to do so within the time
17	after being first duly sworn to testify the truth, and	19	allotted, the transcript may be used as if signed.
18	same were reduced to typewriting under my direction;	20	,
19	that the above and foregoing deposition as set forth	21	
20 21	in typewriting is a full, true, and correct transcript of the proceedings had at the time of taking of said	22	Yours,
22	deposition.		*
23	I further certify that I am not, in any	23	Veritext Legal Solutions
24	capacity, a regular employee of the party in whose	24	
25	behalf this deposition is taken, nor in the regular	25	

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